Zonet®

ZVC7611
ZVC7611W

IP Camera

User's Manual

Copyright Statement

Zonet is the registered trademark of Zonet Technology Inc. All the products and product names mentioned herein are the trademarks or registered trademarks of their respective holders. Copyright of the whole product as integration, including its accessories and software, belongs to Zonet Technology Inc. Without the permission of Zonet Technology Inc., any individual or party is not allowed to copy, plagiarize, imitate or translate it into other languages.

Table of Contents

1. Introduction 1
2. Package Content 1
3. System Requirement 2
4. Hardware Installation 2
   - 4.1 LED and Focusing 2
   - 4.2 Know your ZVC7611/ZVC7611W 3
   - 4.3 Connecting ZVC7611/ZVC7611W to Your Network 4
   - 4.4 ZVC7611/ZVC7611W Application Example 5
5. Software Installation 6
6. Using the Administrator Utility 11
   - 6.1 General Setting 12
     - 6.1.1 LAN Setting 14
     - 6.1.2 Security 15
7. Using the Viewer Utility 16
   - 7.1 Configure IP Camera Viewer 18
     - 7.1.1 Configure Cameras 18
       - 7.1.1.1 Camera 19
       - 7.1.1.2 Schedule Recording 21
       - 7.1.1.3 Audio 23
       - 7.1.1.4 Motion Record 24
     - 7.1.2 General Settings 25
       - 7.1.2.1 General 25
       - 7.1.2.2 E-Mail Setting 26
       - 7.1.2.3 Security 27
       - 7.1.2.4 About 28
   - 7.3 Full-screen mode 32
   - 7.4 Scan 33
   - 7.5 Zoom-in / Zoom-out 34
   - 7.6 PTZ 35
   - 7.7 Snapshot 36
   - 7.8 Recording 37
   - 7.9 Video Playback 38
8. Web Connection and Setup 39
   - 8.1 Camera 40
   - 8.2 LAN 41
   - 8.3 WLAN (For ZVC7611W) 43

8.4 E-Mail and FTP 45
8.5 Motion Detection 46
8.6 System 47
8.7 Status 48
8.8 Users 48
8.9 Log 49
9. Specifications 50
10. Frequently Asked Questions 51
Appendix A Viewing via UPnP in Windows XP 52
Appendix B Configure Windows 2003 Server 55

1. Introduction

Thank you for choosing Zonet ZVC7611/ZVC7611W. ZVC7611/ZVC7611W sends live video through 10/100Mbps wired network to a web browser or camera viewer across Internet anywhere in the world! This compact, self-contained unit lets you keep an eye on your home, your kids, and your workplace—whatever's important to you.
How does the Camera do all of this? Unlike standard "web cams" that require an attached PC, ZVC7611/ZVC7611W can connect directly to a network. The MJPEG video compression produces a high quality, high-frame rate, 640 x 480 video stream. The included Camera Viewer utility lets you record the video to your local hard drive, "live" or on a predetermined schedule.
Use the instructions in this User Manual to help you integrate ZVC7611/ZVC7611W into your network. These instructions should be all you need to get the most out of ZVC7611/ZVC7611W.

2. Package Content

- One ZVC7611/ZVC7611W
- One Quick Installation Guide
- One Installation CD w/Manual
- One Power Adapter
- One Camera Stand
- One Ethernet Cable
- One Antenna (ZVC7611W Only)

Contact your local authorized reseller or the store purchased from for any items damaged and/or missing.

3. System Requirement

- LAN: 10/100Mbps Fast Ethernet
- WLAN: IEEE 802.11b/g
- OS System: Windows 2000/XP/Server 2003/Vista/7
- IE Version: 6.0.29 or above
- CPU: Intel Pentium III 750MHz above or Intel Celeron 1GHz above
- Memory Size: 128MB (256MB recommended)
- DirectX 9.0 or above
- VGA card with fully DirectX 9.0 supported.
- VGA Card Resolution: 800 x 600 or above

4. Hardware Installation

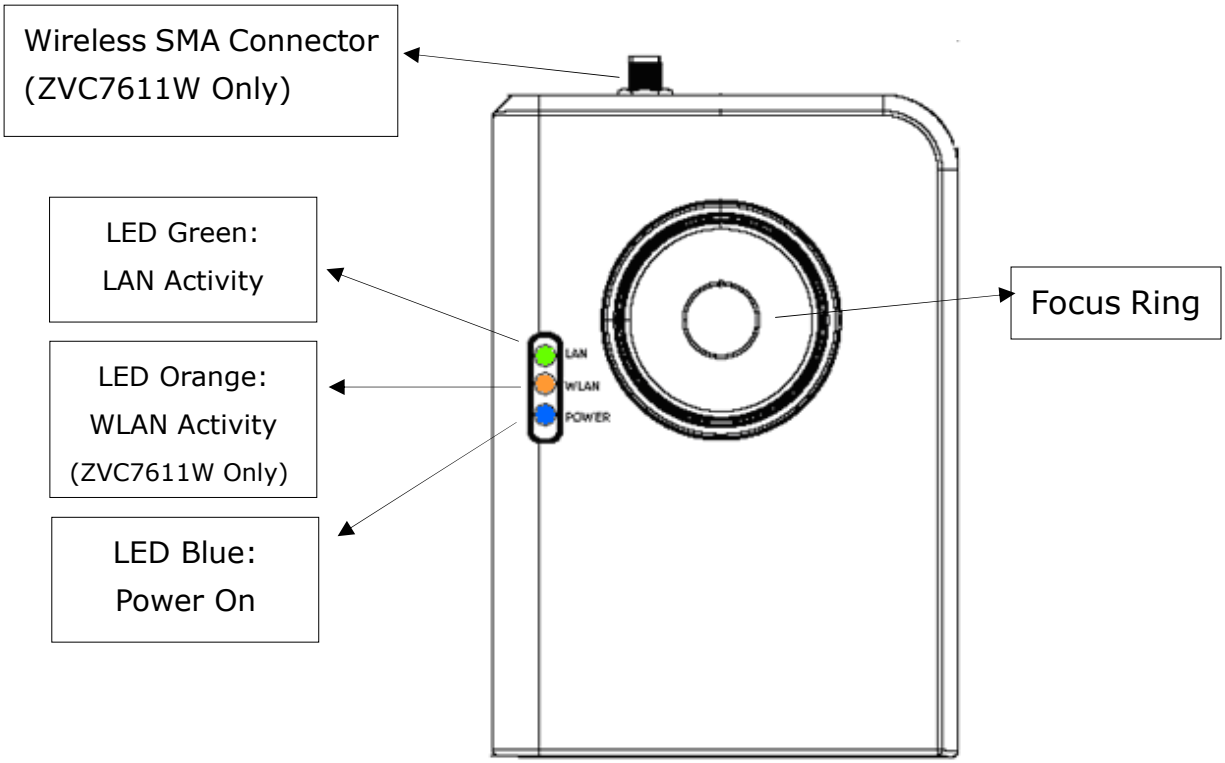
4.1 LED and Focusing

The Camera head and its focus ring allow you to modify the aim and focus of ZVC7611/ZVC7611W.
To adjust ZVC7611/ZVC7611W's focus, rotate the focus ring.

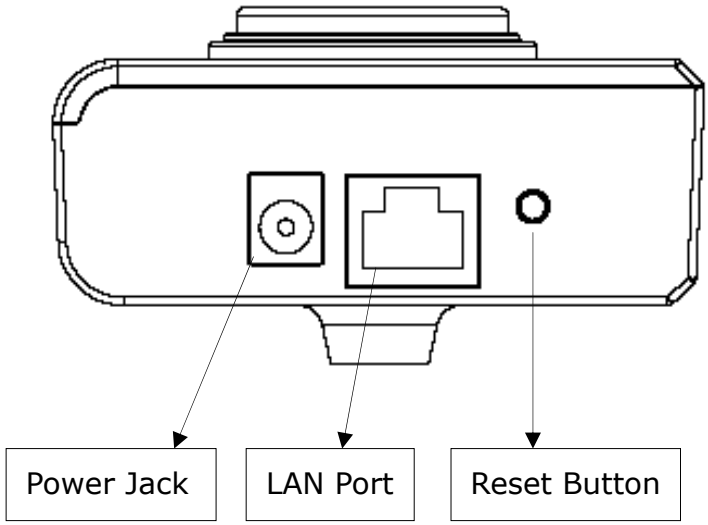
LED Indicator	Status	Description
LAN	ON	Indicates LAN port is connected
	Flashing	Indicates LAN activity (transferring or receiving data)
WLAN (ZVC7611W only)	ON	Indicates WLAN is connected
	Flashing	Indicates WLAN activity (transferring or receiving data)
POWER	ON	Indicates camera is receiving power

4.2 Know your ZVC7611/ZVC7611W

Front View



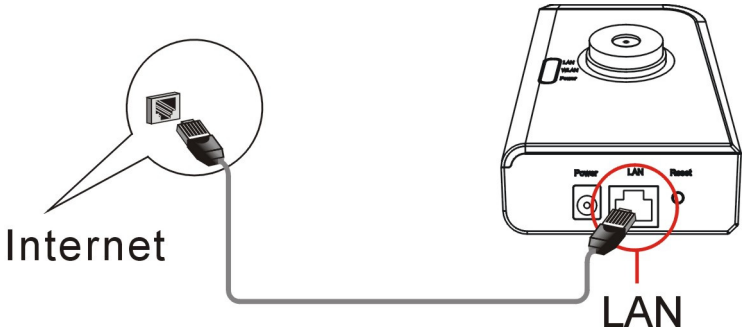
Bottom View



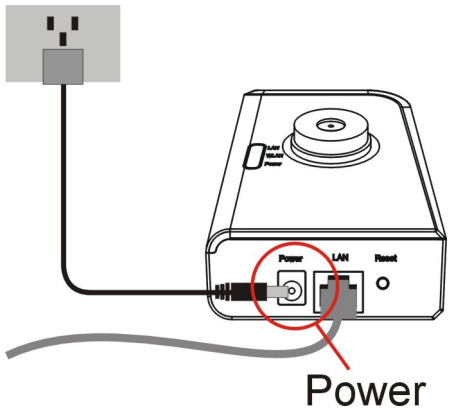
Port & Button	Description
Power Jack	Where you can connect the power adapter
LAN Port	Where you can connect the RJ-45 Ethernet cable
Antenna Connector (ZVC7611W Only)	This is standard Reverse SMA connector where any antenna with Reverse SMA connector can connect to ZVC7611W
Reset Button	1. If problems occur with your ZVC7611/ZVC7611W, press the reset button with a pencil tip for less than 2 seconds and the camera will re-boot itself, keeping your original configurations. 2. If problems persist or you experience extreme problems or you forgot your password, press the reset button for longer than 5 seconds and the camera will reset itself to the factory default settings ***Note**: your original configurations will be replaced with the factory default settings.*

4.3 Connecting ZVC7611/ZVC7611W to Your Network

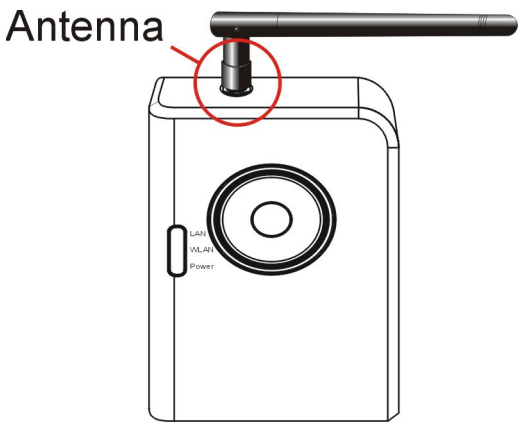
1. Connect ZVC7611/ZVC7611W to your network by provided RJ-45 Ethernet cable from the switch/router to the LAN port of ZVC7611/ZVC7611W.



2. Connect the power adapter to the ZVC7611/ZVC7611W and plug the power adapter to power socket. ZVC7611/ZVC7611W will be powered on. When the ZVC7611/ZVC7611W is ready, the POWER LED will steady blue.



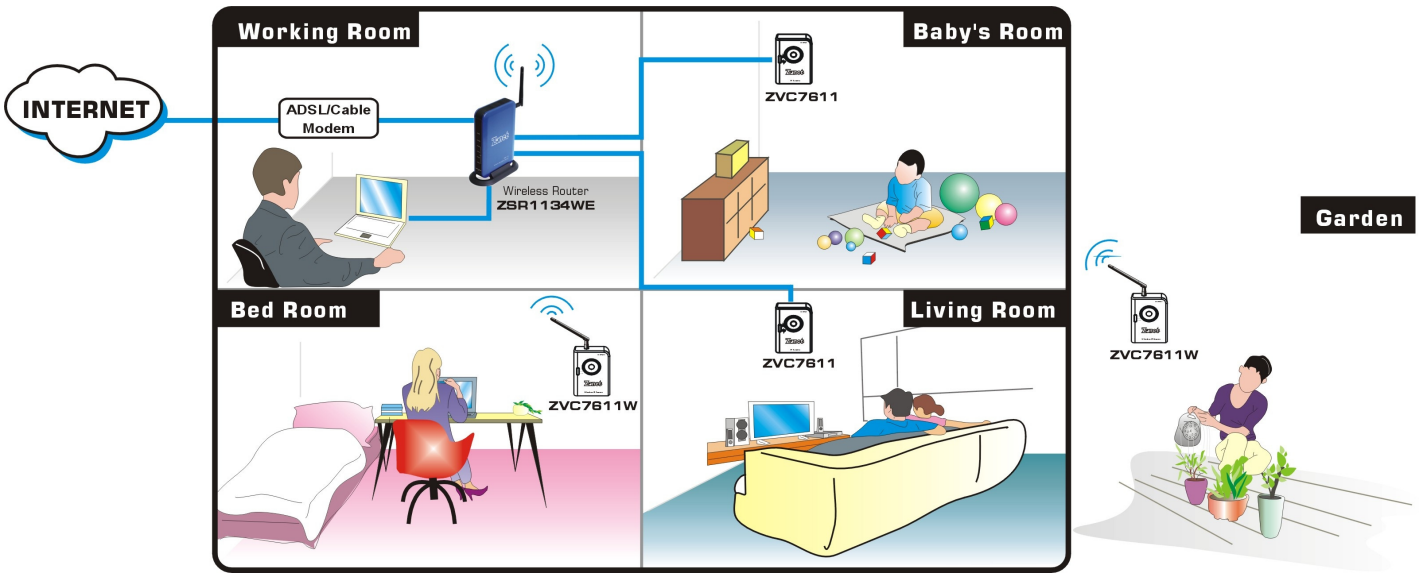
3. You have to connect the Wireless Antenna to ZVC7611W if you'd like to use it in a wireless network environment.



4. Make sure that you have installed correct VGA driver and DirectX 9.0 or above.

4.4 ZVC7611/ZVC7611W Application Example

The following diagram explains one of the most typical applications for the ZVC7611/ZVC7611W.



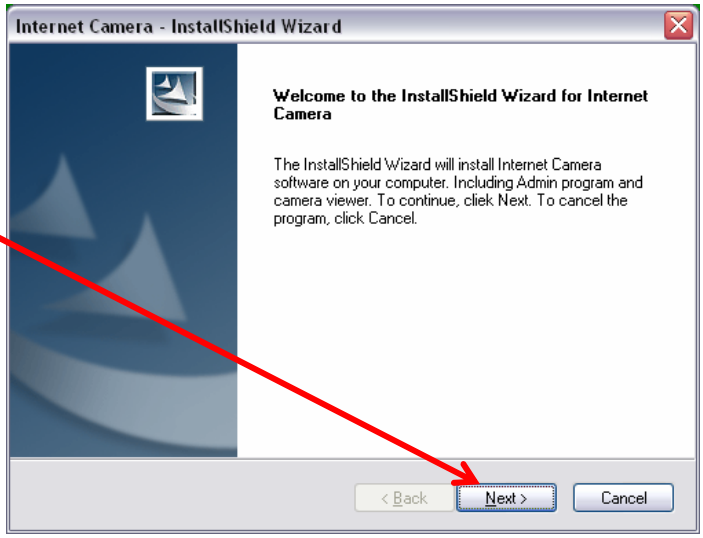
5. Software Installation

NOTE: *Snap-shot screens of the following installation procedure are based on Windows XP. Installation procedures will be similar for other windows operating systems.*

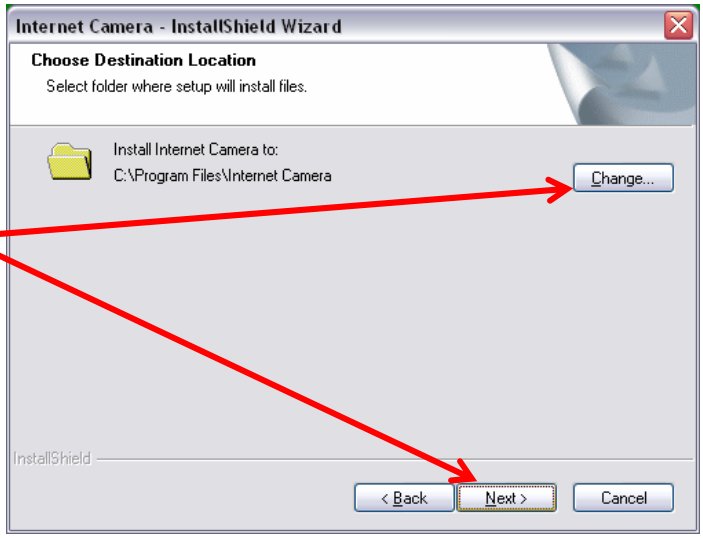
1. Insert Installation CD to your CD-ROM drive and the Welcome screen appears. If you don't see the Welcome screen, browse CD and double-click ***Autorun.exe***.

2. The Wizard will show four selections, select the program you want to install or click ***Exit*** to install later.

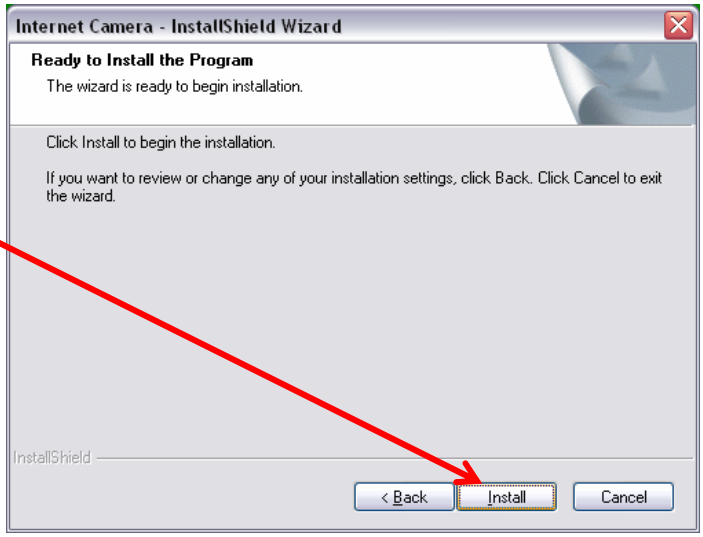
3. Click ***Next*** to continue the installation


Internet Camera - InstallShield Wizard
Welcome to the InstallShield Wizard for Internet Camera
The InstallShield Wizard will install Internet Camera software on your computer. Including Admin program and camera viewer. To continue, cliek Next. To cancel the program, click Cancel.
< Back
Next >
Cancel

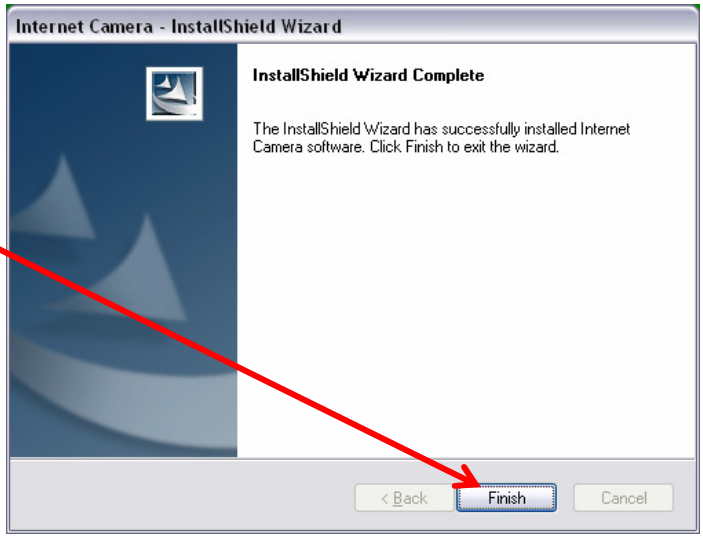
4. If you want to change the path, click ***Change***; otherwise just click ***Next*** to continue.



5. Click ***Install*** to start installing the program

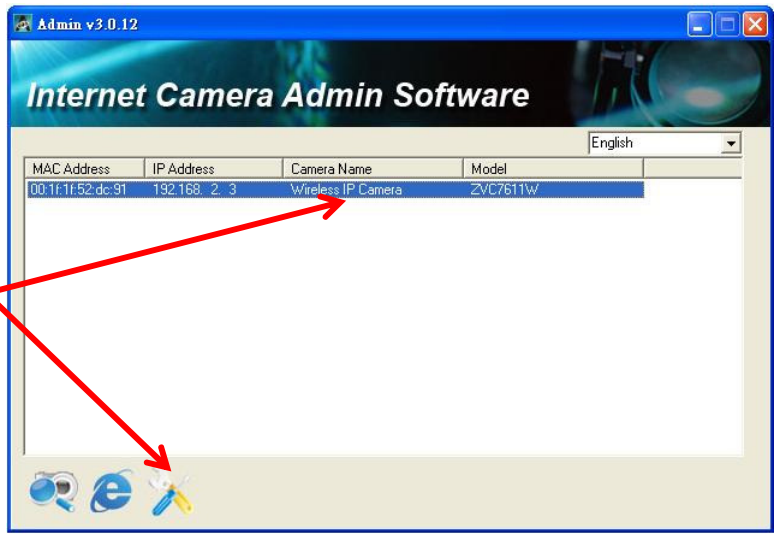

Internet Camera - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

6. Click ***Finish*** to complete ***Administrator Utility*** installation.

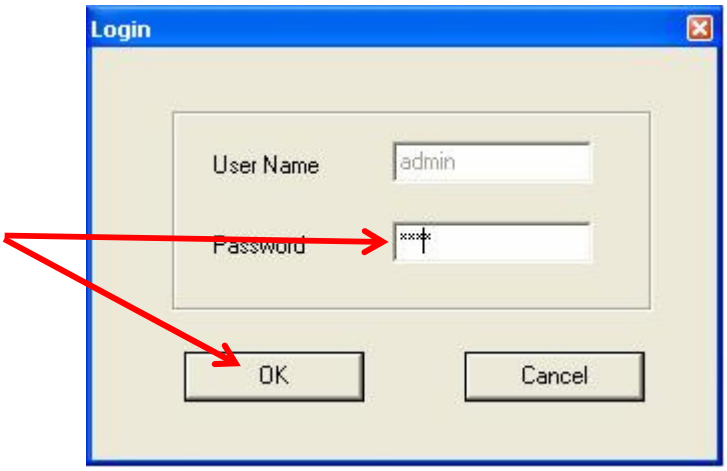

Internet Camera - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed Internet Camera software. Click Finish to exit the wizard.
< Back
Finish
Cancel

7. Go back to wizard page and click ***Install 16 Chan camera viewer***, the system will start running viewer installation.

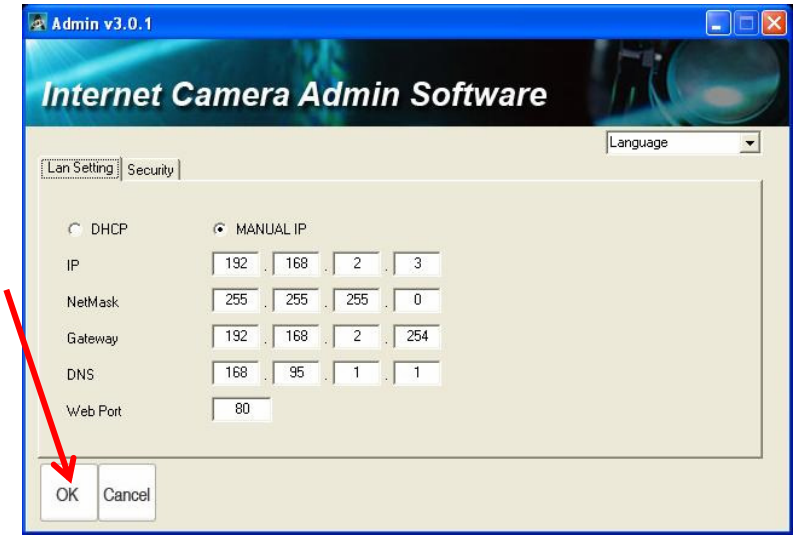
8. ***Administrator Utility*** will run automatically after viewer installation. In first page, the cameras found in the network are listed. Choose one you want to configure and click ***Configure Camera*** to continue.



9. Enter default password ***1234*** and click ***OK*** to login IP setup page.

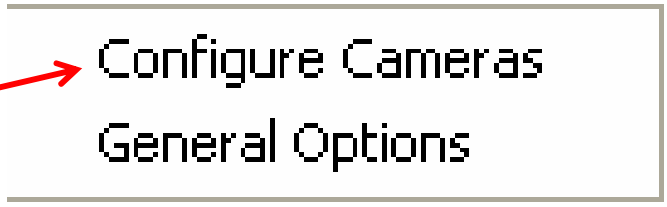


10. The program will detect IP address status of your network automatically. You can accept the suggested value or enter the value manually. If you enter the value manually, please be aware that *Subnet Mask* must be the same for both camera and PC. Click ***OK*** to apply the configuration.

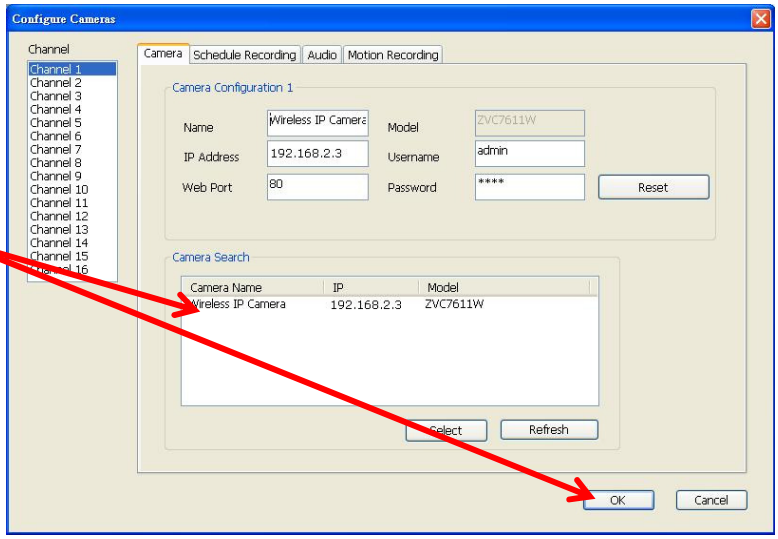


11. Click ***IPCam Surveillance Software*** icon from desktop/ quick launch bar/ start menu to start the IP camera surveillance software.

12. Click ***System configure*** button and a popup menu will appear. Select ***Configure Cameras*** to configure ZVC7611/ZVC7611W.



13. Choose the camera you want to connect in ***Camera Search*** list and click ***Select*** to add it into the channel you want to view then click ***ok***



14. IP Camera Viewer will pop out and the video will show on the channel you choose automatically.

Congratulations! You've successfully configured your ZVC7611/ZVC7611W!

6. Using the Administrator Utility

IPCam Admin Utility allows users to search and setup ZVC7611/ZVC7611W located within Intranet or Internet. From the utility, users can view all the information of the selected camera; furthermore, it provides a setting wizard, which can guide users to add ZVC7611/ZVC7611W to the network easily and promptly.

There are two ways to run IPCam Admin Utility as follows.

1. Click ***Start*** → select ***Programs\IP Camera\Admin Utility*** to run the utility.
2. Double click ***IPCam Admin Utility*** icon to run the utility.

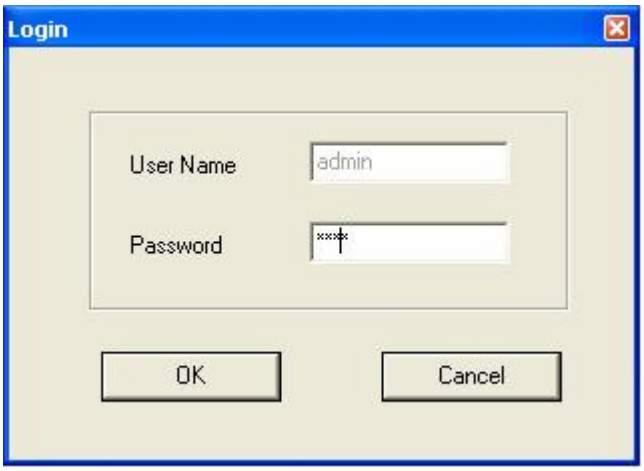
6.1 General Setting

Information of Camera	
Camera Information	It displays MAC address, IP Address, Camera Name and Model of the selected camera.
Task Bar	
Search Camera	Click ***Search Camera*** to search cameras on the network.
Browse Camera via Web	Click ***Browse Camera via Web*** to activate browser and auto connect to IP cam to get video
Configure Camera	Click ***Configure camera*** to change the IP setting and user name password of the IP Cam you selected.
Languages	
Language	Supports 3 languages (English/Japanese/Chinese).

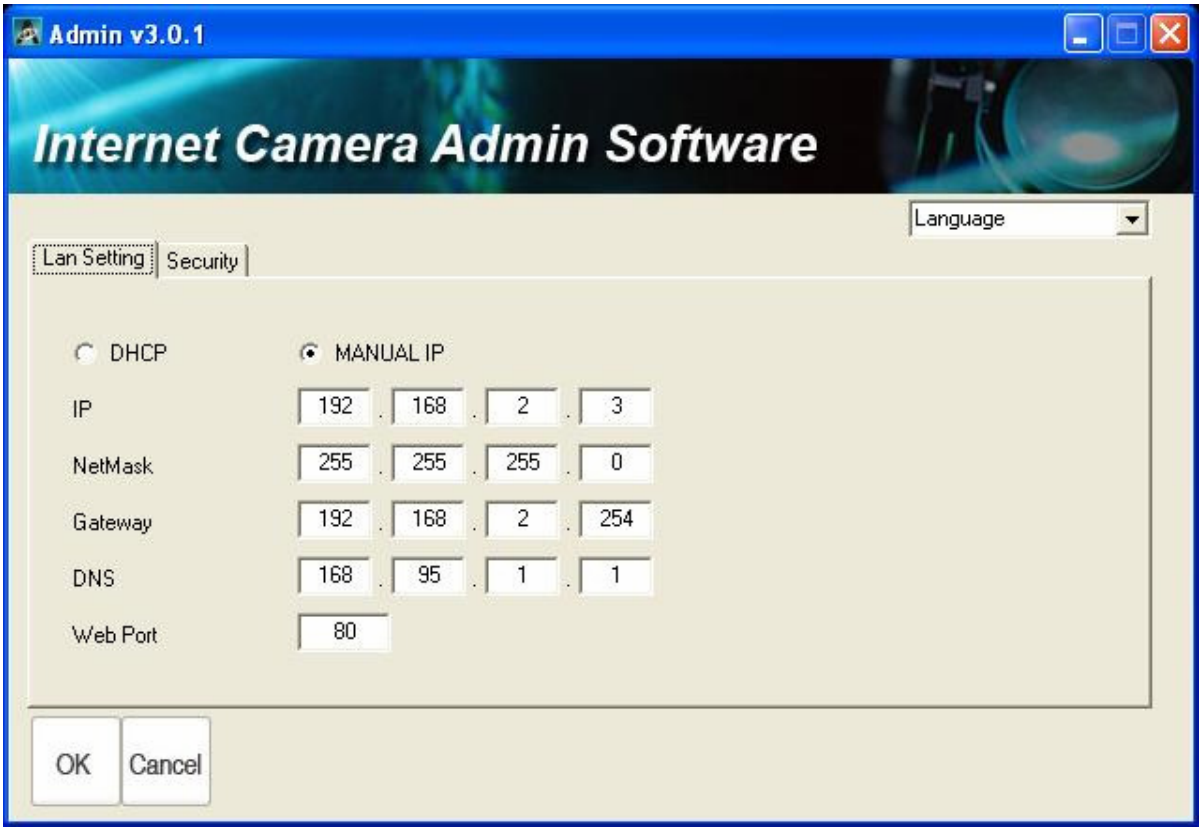
When you click ***Configure Camera*** icon , a screen will pop up to enter User Name and Password. The default value is as follows.

User Name: **Admin**

Password: **1234**

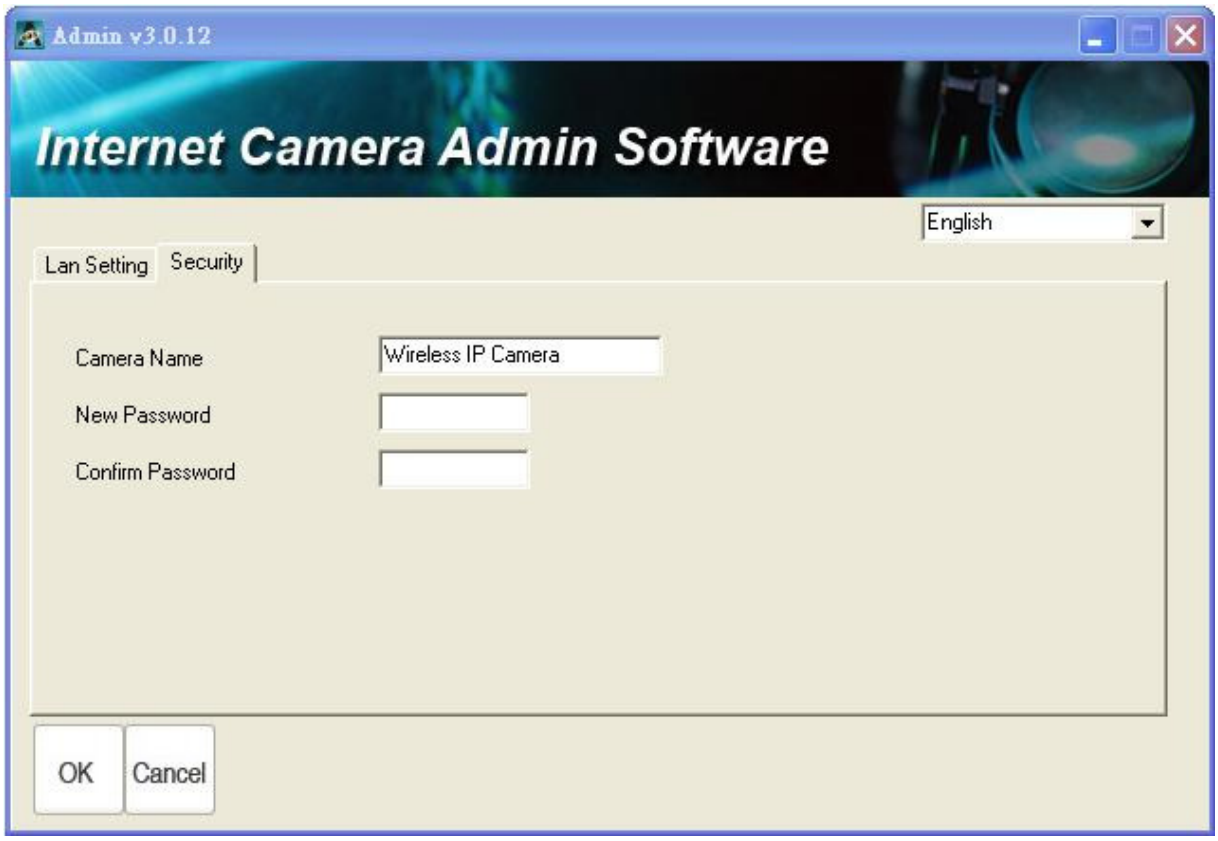


6.1.1 LAN Setting



- **IP Address:** Enter an IP Address within the IP address range on your LAN. Default IP Address: http://192.168.2.3
- **NetMask:** Subnet Mask field must match the subnet setting on your LAN.
- **Gateway:** Gateway setting must be the same with the gateway used by the PCs on your LAN.
- **DNS:** DNS Server (Domain Name Server) translates names to IP addresses. Set the same DNS Server as the PCs on your LAN.
- **Web Port:** Default web port is 80. If you change the web port from 80 to 8080, you must type http://192.168.2.3:8080 to connect ZVC7611/ZVC7611W through web browser.

6.1.2 Security



- **Camera Name:** The default camera name is ***IP Camera/Wireless IP Camera***.
- **New Password:** Enter the new password you want to use for ZVC7611/ZVC7611W.
- **Confirm Password:** Retype the new password to confirm the setting.

7. Using the Viewer Utility

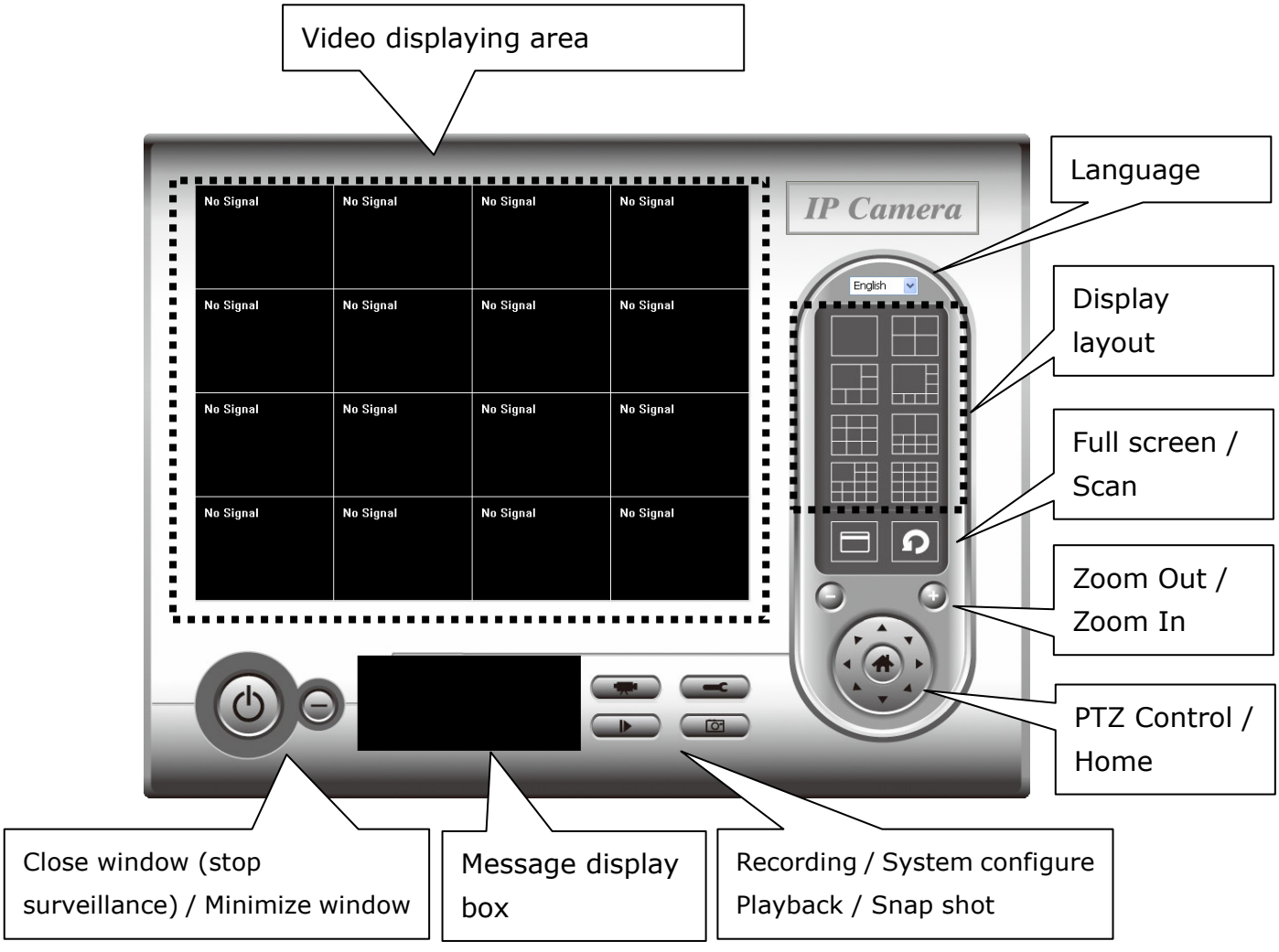
Before you start:

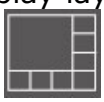
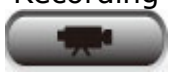
IPCam Surveillance Software will only work when monitor's resolution is 1024 x 768. Please must change the resolution before using IPCam Surveillance Software.

You can click ***IPCam Surveillance Software*** icon from desktop/ quick launch bar/ start menu to start IPCam Surveillance software.

IP Camera Viewer Introduction:

You can also put the mouse cursor on a certain figure to see the button name.

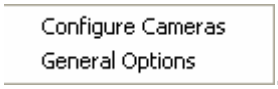


Item	Description
Video displaying area	The image of all connected cameras will be displayed here.
Language	Select a language from dropdown menu.
Display layout 	Select a layout icon to change camera display layout. There are 8 kinds of available display layouts.
Full screen	Click to switch to full screen mode (only display ***video displaying area***), press ***ESC*** key to quit full screen mode.
Scan	Click to switch to slide show mode. Click once to activate scan function (icon will become blue), click again to stop scanning (icon will become white).
Zoom Out	ZVC7611/ZVC7611W doesn't support Zoom-Out function.
Zoom In	ZVC7611/ZVC7611W doesn't support Zoom-In function.
PTZ control	ZVC7611/ZVC7611W doesn't support PTZ control function.
Home	ZVC7611/ZVC7611W doesn't support Home function.
Recording 	Start video recording.
System Configure	Software / Camera configuration.
Playback	Playback a recorded video file.
Snapshot	Take a snapshot of current camera.
Message Display Box	Displays all system messages.

Close window (stop surveillance)	Terminates IPCam surveillance software.
Minimize window	Minimizes IPCam surveillance software window.

7.1 Configure IP Camera Viewer

7.1.1 Configure Cameras

Before using IPCam Surveillance Software, you must configure ZVC7611/ZVC7611W(s) you wish to connect. Please click ***System configure*** button and select ***Configure Cameras*** from popup menu 

.

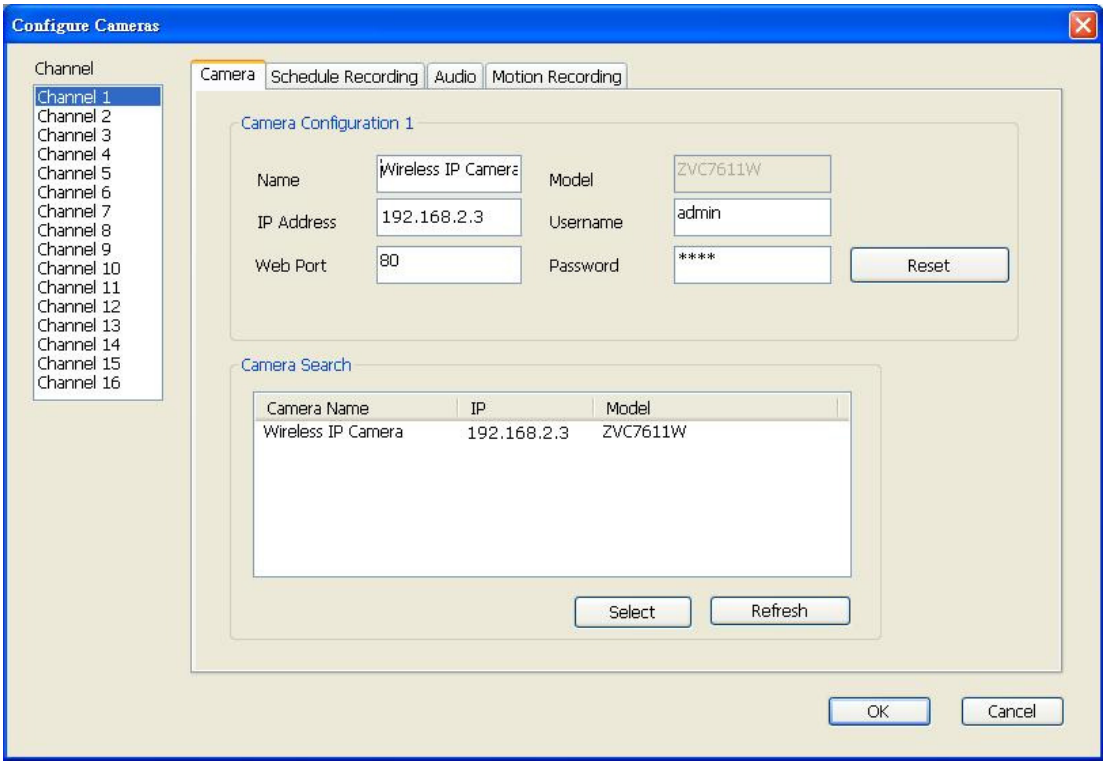
Note:

If you're prompted by a windows security alert which asks you if you want to block IPCamViewer program, please click ***Unblock*** *button, or IPCam Surveillance Software will not be able to function correctly.*

Windows Security Alert
To help protect your computer, Windows Firewall has blocked some features of this program.
Do you want to keep blocking this program?
Name: IPCamViewer
Publisher: Unknown
Keep Blocking
Unblock
Ask Me Later
Windows Firewall has blocked this program from accepting connections from the Internet or a network. If you recognize the program or trust the publisher, you can unblock it. When should I unblock a program?

7.1.1.1 Camera

In Camera tab you can configure all ZVC7611/ZVC7611W you wish to connect. Up to 16 cameras can be connected simultaneously.



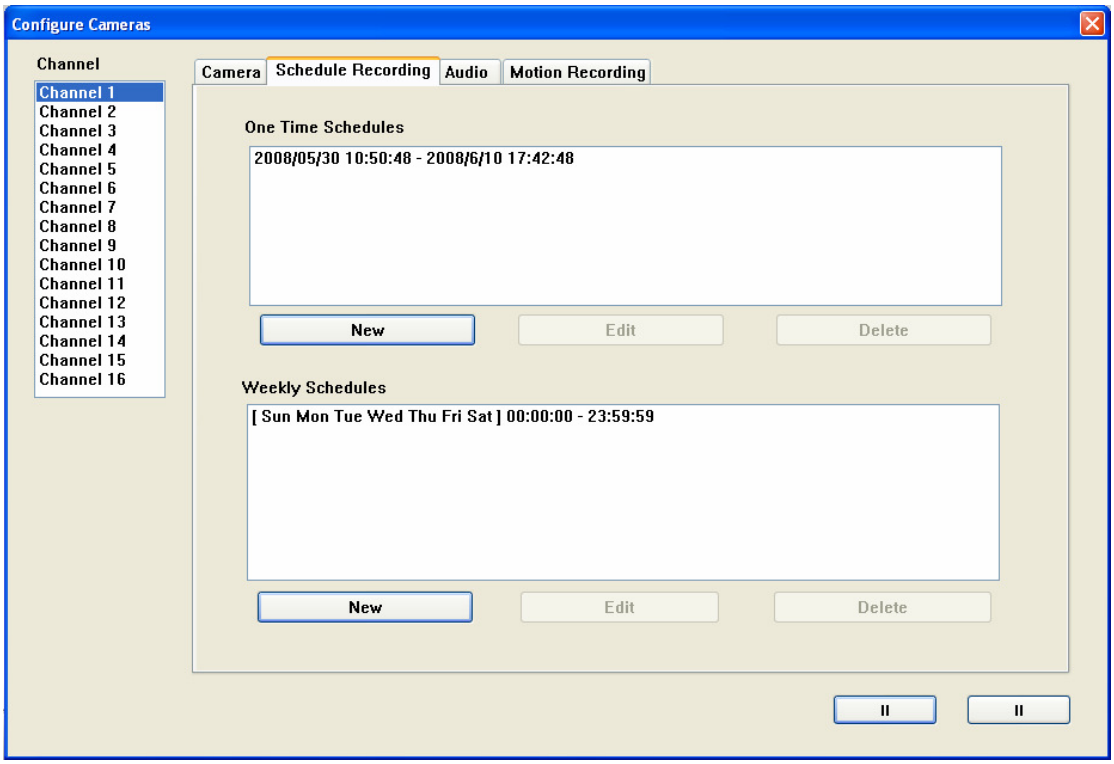
- **Channel:** Select the channel number you wish to set.
- **Camera Search:** List all cameras found on your local network
- **Select:** Choose a camera, and click ***Select*** button to add it into the channel you want to view
- **Refresh:** Rescan all cameras on your local network.
- **Camera Configuration:**
  - ***Name:** Default value is ***IP Camera/Wireless IP Camera***, you can change the name of ZVC7611/ZVC7611W so you can remember the location of purpose easily.
  - **Model:** Displays the model of selected camera. This field can not be changed.
  - ***IP:** Input IP address of ZVC7611/ZVC7611W.
  - ***Username:** Input User Name of ZVC7611/ZVC7611W.
  - ***Web Port:** Default value is ***80***.
  - **Password:** Default value is ***1234***. Password changed if you changed the password of selected camera.

  ****:** *It's recommended to use **Select** button to fill the content of this field.*
- **Reset:** Clear all fields in ***Camera Configuration*** section.
- **OK:** Save settings in this tab.

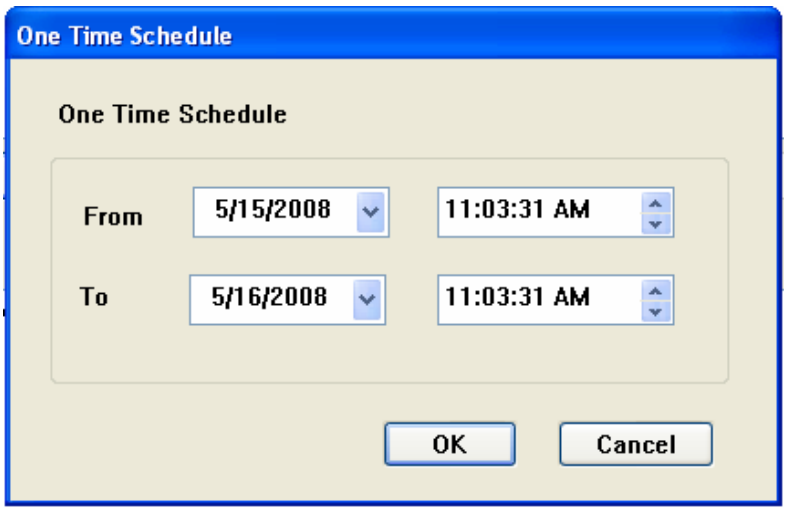
After clicking ***OK*** button to save settings, you'll see the image in IPCam Surveillance Software's main menu:

7.1.1.2 Schedule Recording

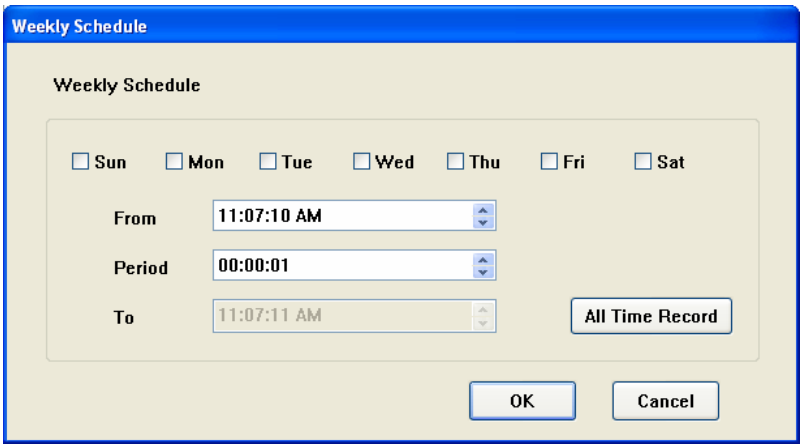
In Schedule Recording tab, you can setup scheduled video recording, so you can record the video captured by all cameras you have by a pre-defined schedule.



- **Channel:** Select the channel number you wish to set.
- **One Time Schedules:** This schedule will be executed once only.
- **New:**
  - **One Time Schedules:** Specify the time duration of this one-time schedule, then click ***OK*** to save settings



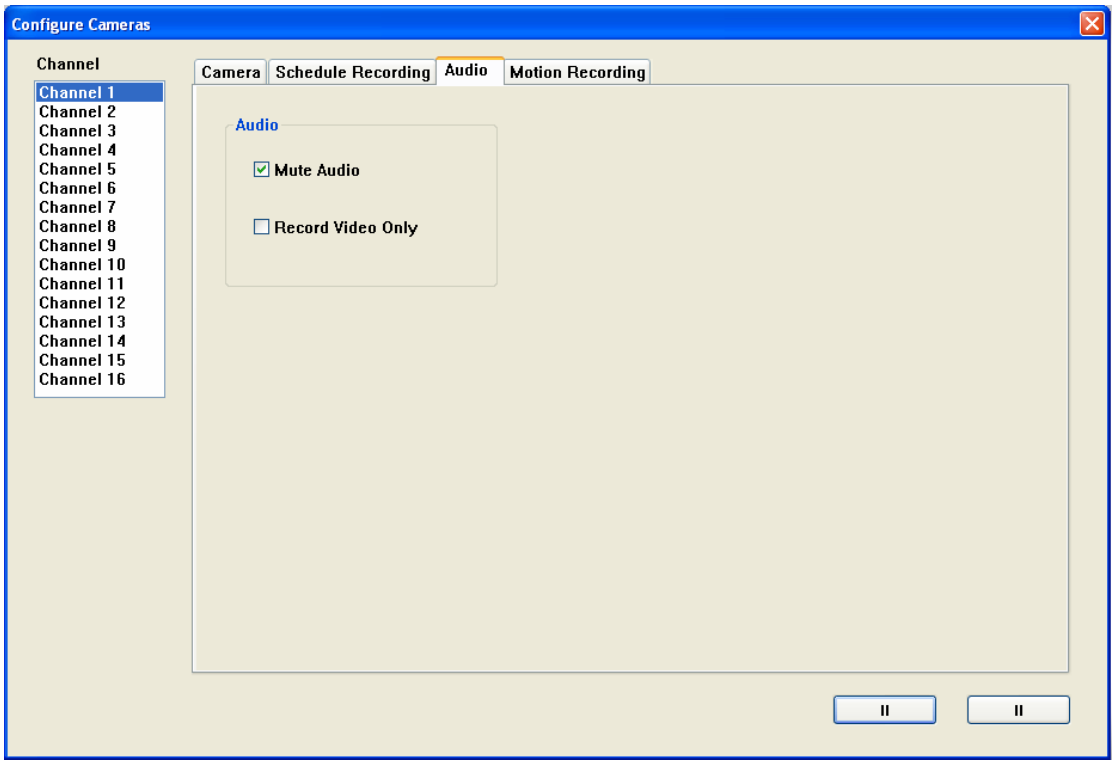
- **Weekly Schedules:**
  - Check selected weekdays, and set the start time in ***From***. You can set the duration of video recording in ***Period*** (HH:MM:SS), and end time will be displayed in ***To*** automatically.
  - Click ***All Time Record*** button to define a recording schedule that will be executed every weekday, from 12:00:00AM to 11:59:59PM.



- **Edit:** Edit the start and end time of the selected schedule item.
- **Delete:** Delete a selected schedule item.
- **OK:** Save settings in this tab.

7.1.1.3 Audio

Please note that ZVC7611/ZVC7611W doesn’t support audio function.
Audio tab is not working for ZVC7611/ZVC7611W.

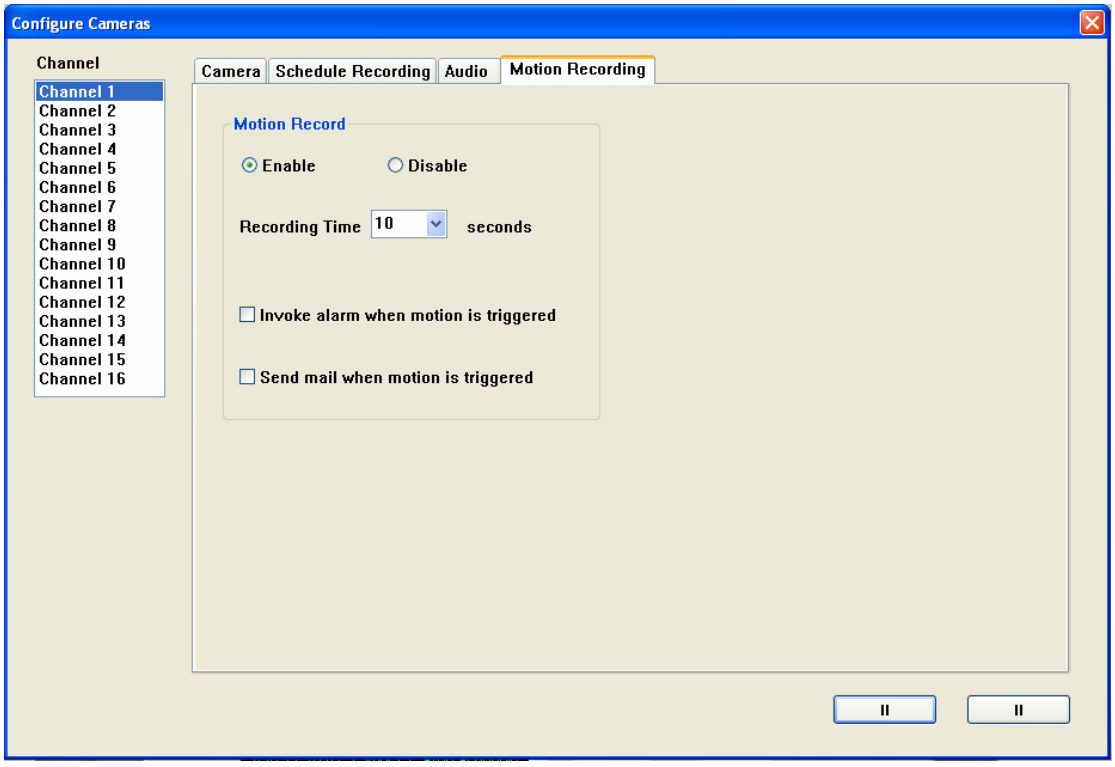


7.1.1.4 Motion Record

With Motion Record function activated, only motions captured by selected camera will be recorded.

WARNING:

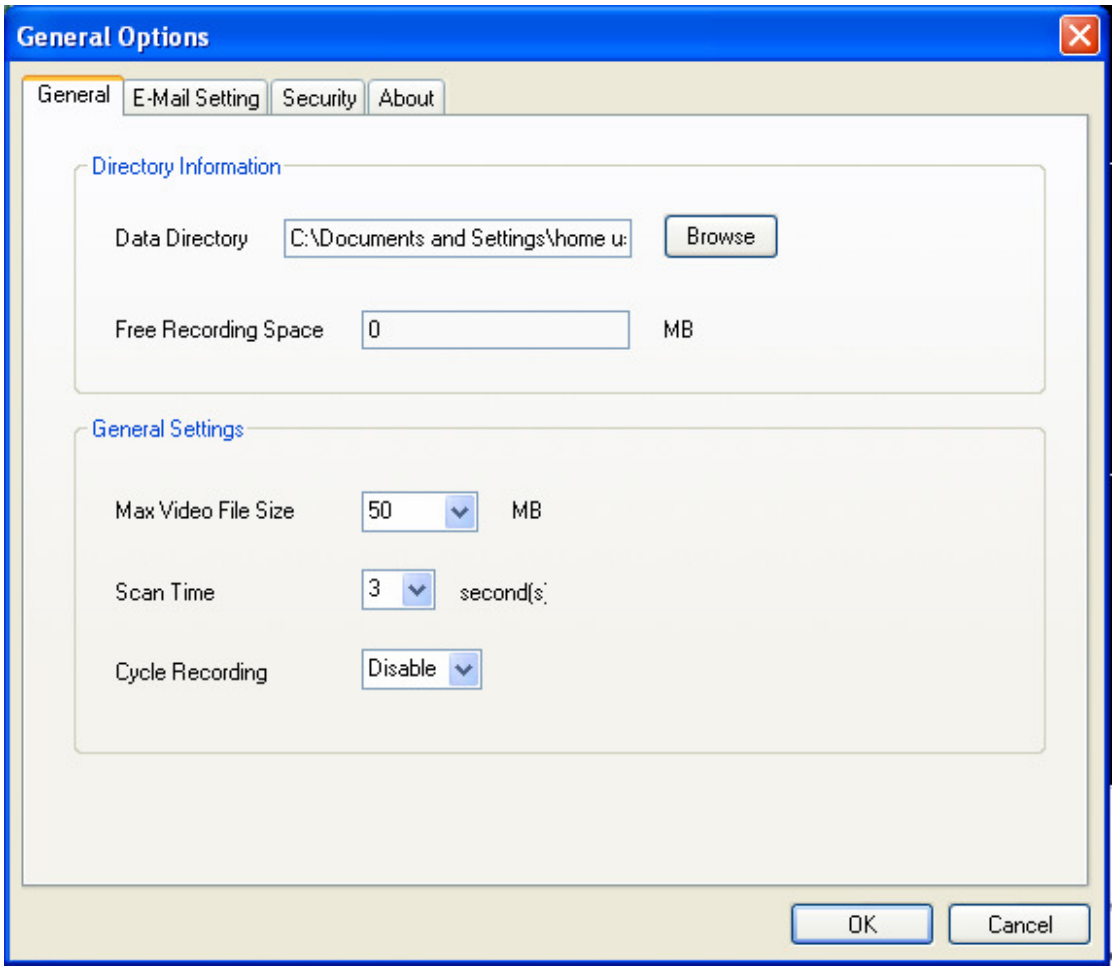
For applications that security is highly concerned, it's not recommended to use this function since some tiny changes may not be able to trigger the camera and the camera will not start recording.



- **Channel:** Select the channel number you wish to set.
- **Enable:** Activate motion record function.
- **Disable:** Deactivate motion record function.
- **Recording Time:** Select the time duration from dropdown menu in seconds.
- **Invoke alarm when motion is triggered:** Send an alarm when a motion has been detected by ZVC7611/ZVC7611W.
- **Send mail when motion is triggered:** Send an email to a pre-defined address when a motion has been detected by ZVC7611/ZVC7611W.
- **OK:** Save settings in this tab.

7.1.2 General Settings

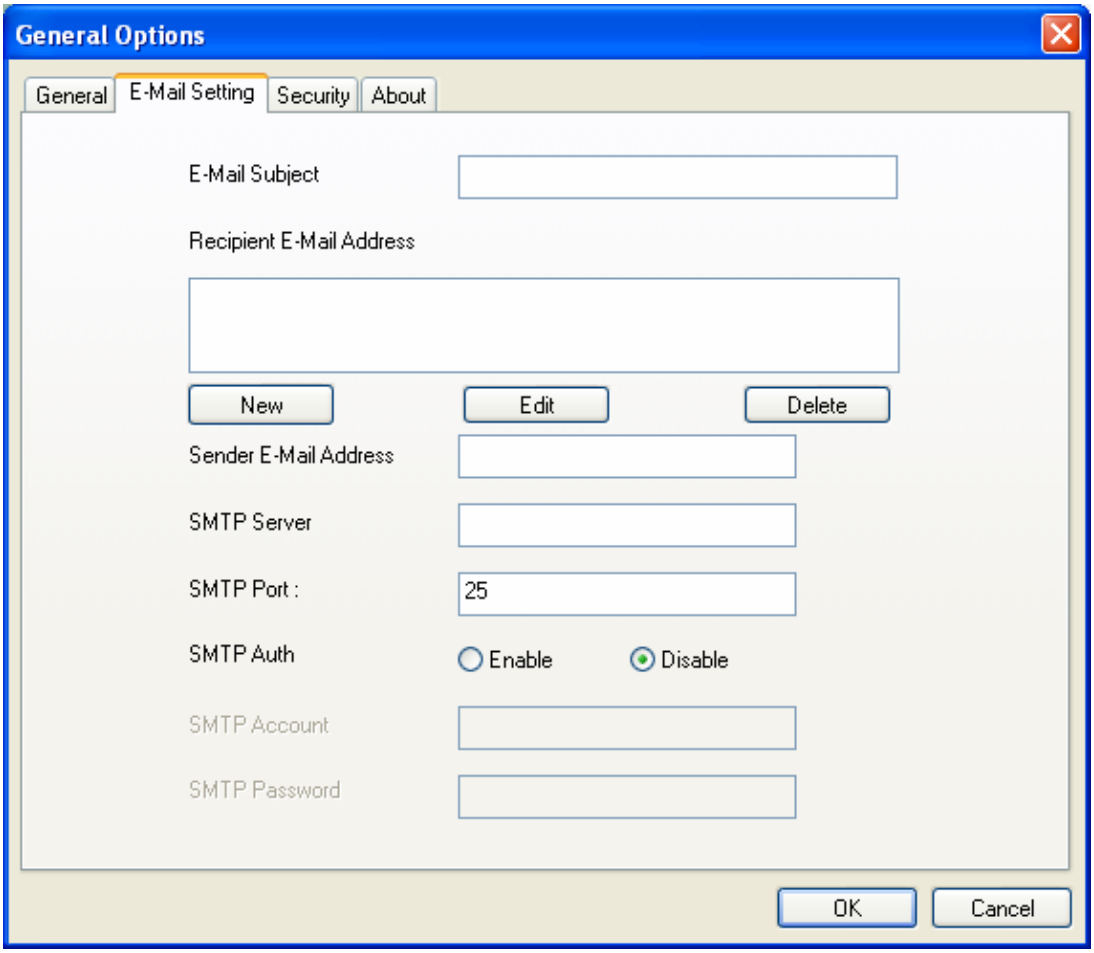
7.1.2.1 General



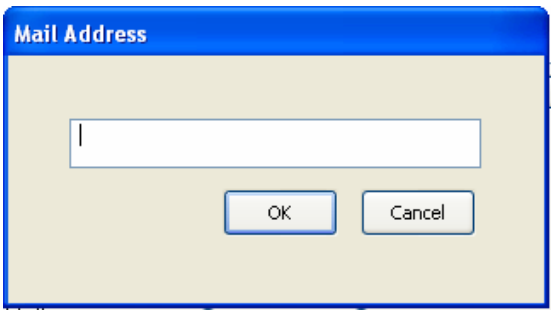
- **Data Directory:** Assign a folder you wish to store the recorded video and captured image. Click ***Browse*** button to pick a directory in your hard disk.
- **Free Recording Space:** Displays remaining storage space.
- **Max Video File Size:** Defines the maximum file size of every video file. When the size of file exceeds this value, IPCam Surveillance Software will open another file to record the video.
- **Scan Time:** Define the time period for slide show between every camera switch when you activate Scan function .
- **Cycle Recording:** Decide the behavior when hard disk space is full.
  - **Disable:** Do not overwrite recorded video files.
  - **Enable:** Overwrite recorded video files.
- **OK:** Save settings in this tab.

7.1.2.2 E-Mail Setting

If you want to get an email that contains the image captured by ZVC7611/ZVC7611W from motion detection function, please setup your email information here first.



- **E-Mail Subject:** Specify the subject of sending email.
- **Recipient E-Mail Address:** Lists all email addresses you set.
  - **New:** Click to input the email address.

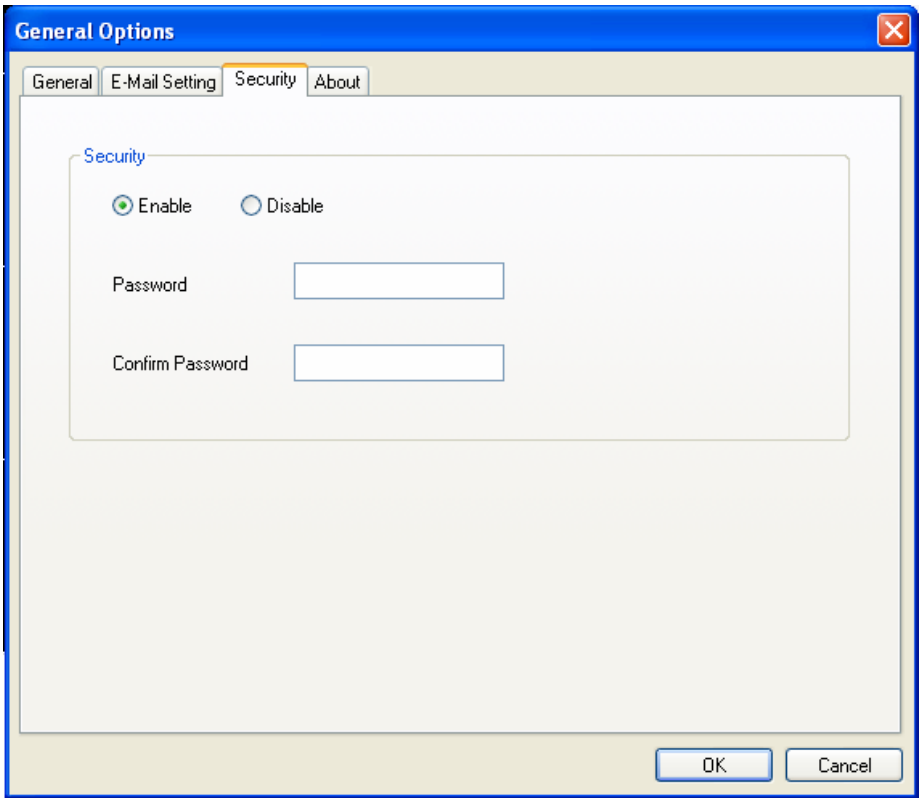


  - **Edit:** Select an email address from ***Recipient E-Mail Address***, and click ***Edit*** to edit the email address.
  - **Delete:** Delete selected email address.
- **Sender E-Mail Address:** Specify the email address of email sender.

- **SMTP Server:** Specify the IP address or host name of the SMTP server you wish to use.
- **SMTP Port:** Specify the port number of the SMTP server you wish to use. Default value is ***25***.
- **SMTP Auth:** Select ***Enable*** if your SMTP server requires authentication, select ***Disable*** if it's not required.
- **SMTP Account:** Input the SMTP account (username) of your SMTP server. In most cases, it's the same with your POP3 username.
- **SMTP Password:** Input the SMTP password of your SMTP server. In most cases, it's the same with your POP3 password.
- **OK:** Save settings in this tab.

7.1.2.3 Security

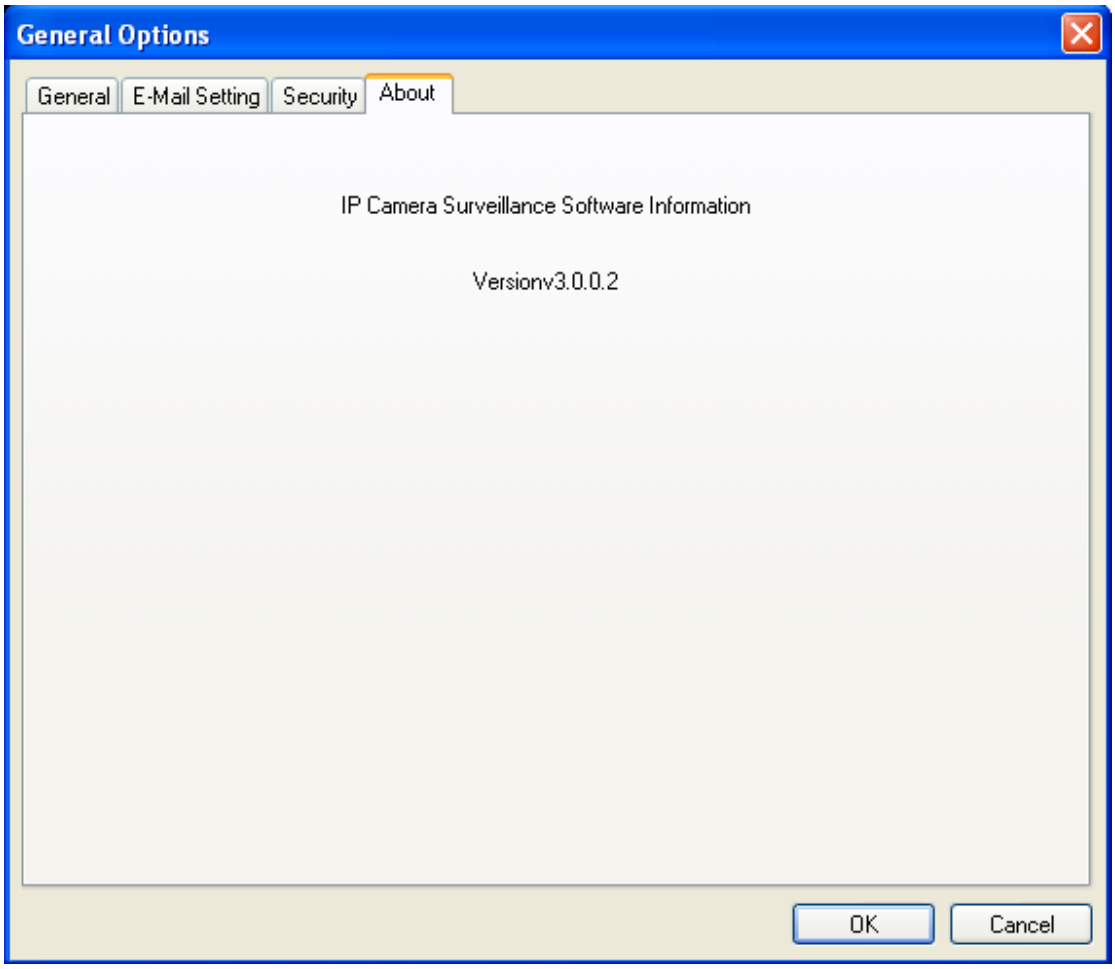
To prevent other people to access IPCam Surveillance Software, you can set a password to protect it.



- **Enable:** Requires password authentication when software starts.
- **Disable:** Password authentication is not required when software starts.
- **Password:** Input the password you wish to use.
- **Confirm Password:** Input the password you wish to use again.

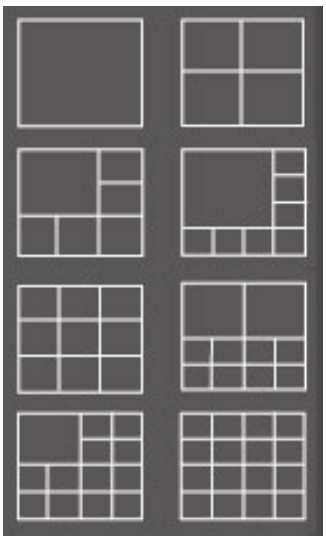
7.1.2.4 About

About tab shows the version number of the IPCam Surveillance Software you are using.



7.2 Change Display Layout

IPCam Surveillance Software provides 8 kinds of display layout:



Every layout displays different number of camera and camera arrangement, you can click the icon that presents a specific kind of layout, and the video displaying area will change accordingly.

Style 1.

1 Camera only

01

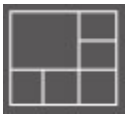
Style 2.

4 Cameras

01	02
03	04

Style 3.

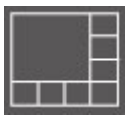
6 Cameras



01		02
		03
04	05	06

Style 4.

8 Cameras



01			02
			03
			04
05	06	07	08

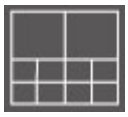
Style 5.

9 Cameras

01	02	03
04	05	06
07	08	09

Style 6.

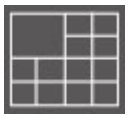
10 Cameras



01		02	
03	04	05	06
07	08	09	10

Style 7.

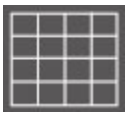
13 Cameras



01		02	03
		04	05
06	07	08	09
10	11	12	13

Style 8.

16 Cameras



01	02	03	04
05	06	07	08
09	10	11	12
13	14	15	16

7.3 Full-screen mode

Click ***Full Screen*** button to switch display mode to full-screen mode.

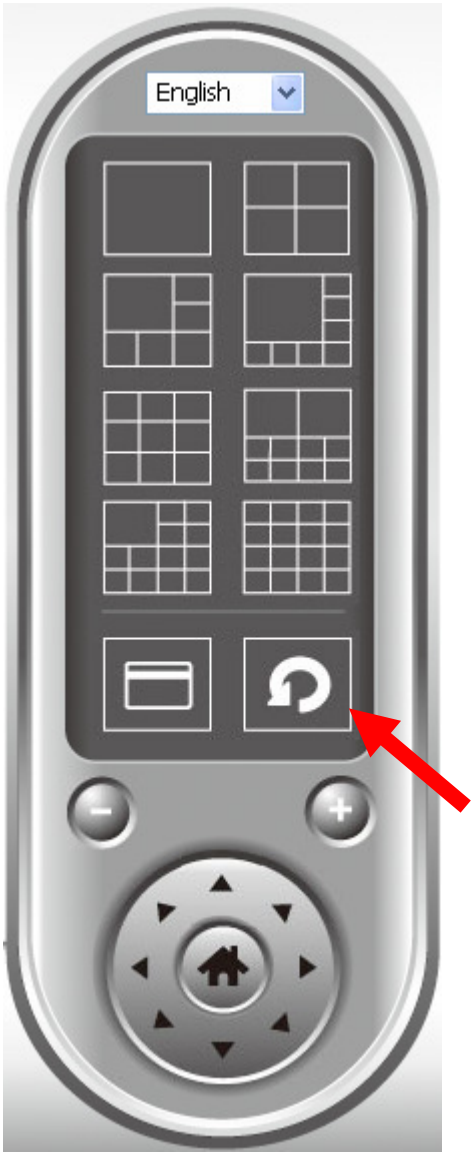
To exit full-screen mode, press ***ESC*** key.

7.4 Scan

If you have more than one camera configured, you can click ***Scan*** button to switch between all configured cameras as slide show function.

NOTE:

If camera is configured but disconnected, it will still be displayed in a scan sequence, but you'll see nothing and you'll see ***Disconnected*** *text displayed at the upper-left corner of the image.*

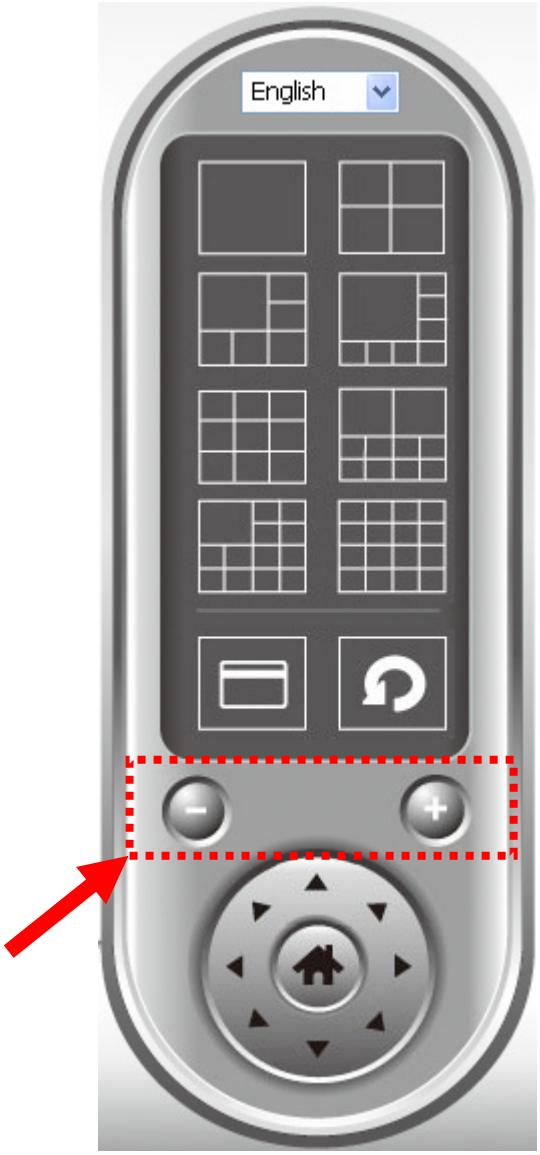


Click ***Scan*** once to activate scan function (icon will become blue).
Click again to stop scanning (icon will become white).

For slide show interval setting, please refer to ***7.1.2.1 General → Scan Time***.

7.5 Zoom-in / Zoom-out

ZVC7611/ZVC7611W doesn't support Zoom-in / Zoom-out function.

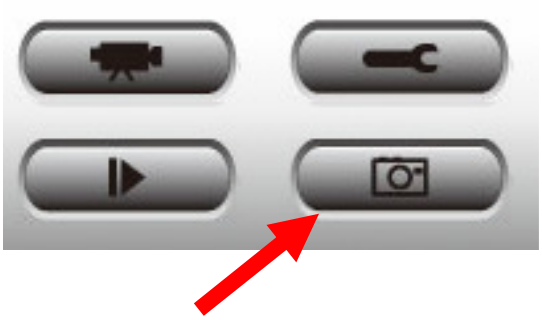


7.6 PTZ

ZVC7611/ZVC7611W doesn’t support PTZ function.

7.7 Snapshot

You can take a snapshot of selected camera and save it to ***Snapshot sub-folder*** of pre-defined data directory.



Click ***Snapshot*** button once to take a snapshot.
You can take as much snapshot as you want before hard disk is full.

7.8 Recording

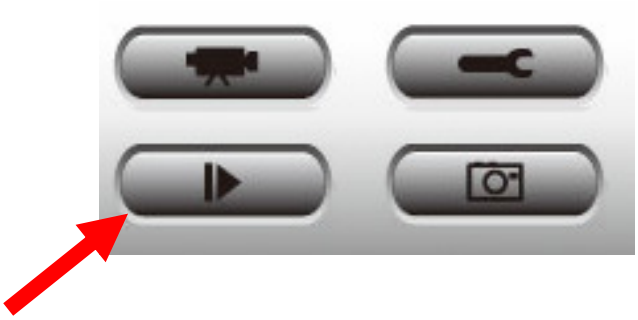
You can start video recording of selected camera manually by clicking ***Recording*** button:

When recording starts, you'll see a message in ***Message Displaying Box*** such as ***1/1 10:00:00, Camera 1 Start Manual***, which means camera 1 starts recording manually on 1/1 at 10:00:00.

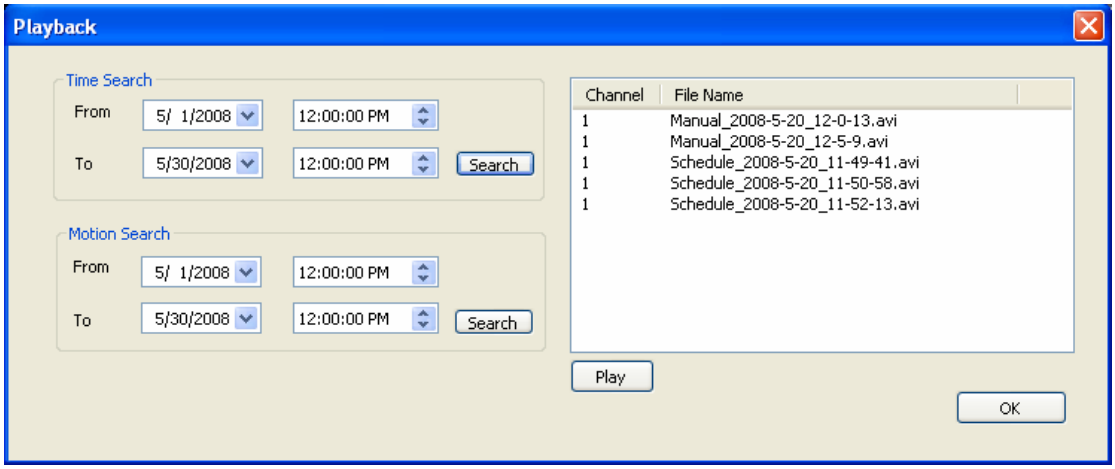
To stop recording, click ***Recording*** button again, and you'll see a message such as ***1/1 10:00:00, Camera 1 Stop Manual***.

7.9 Video Playback

You can playback all recorded video by clicking ***Playback*** button.



A Playback window will appear, search the video file before you play it.



There are two kinds of video search:

- **Time Search:** Search all video files in a specific period
- **Motion Search:** Search all videos recorded by motion detection function in a specific period.

Define Start and End date / time of the time period, and then click ***Search***. All found videos will be displayed, select the video you wish to play and click ***Play*** to playback.

8. Web Connection and Setup

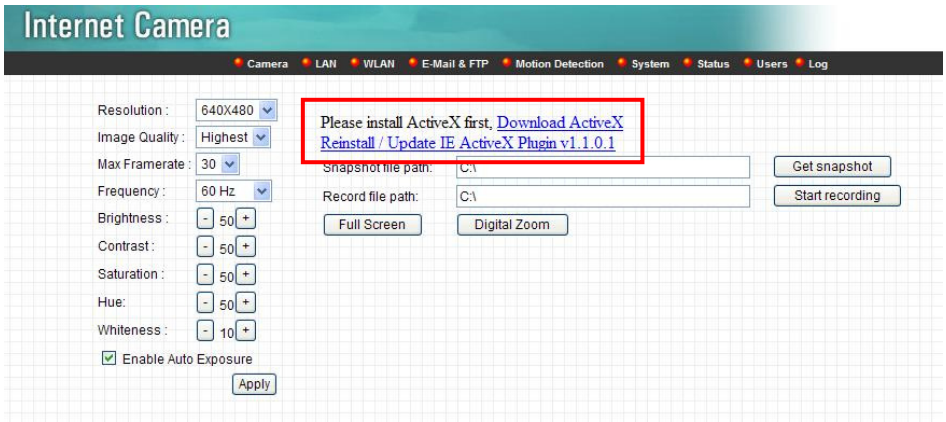
To configure ZVC7611/ZVC7611W with the Web browser, start the web browser and input the default IP address of ZVC7611/ZVC7611W http://192.168.2.3 in address bar.

Input the ***User Name*** and ***Password*** and click ***OK***.

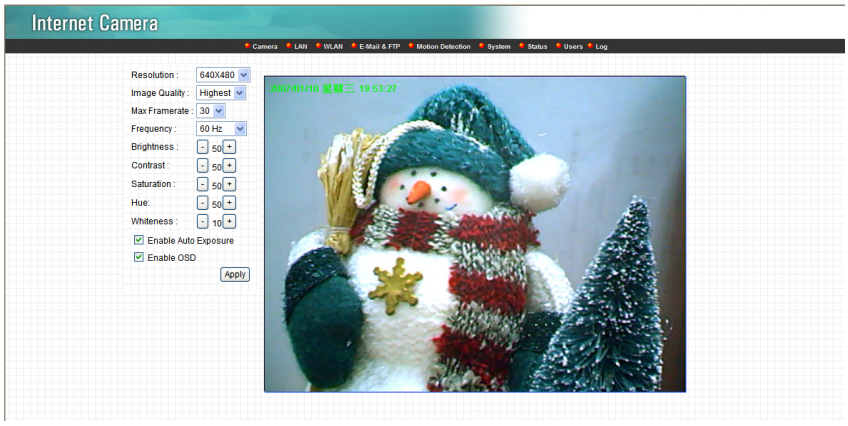
The default values are:

- User Name: **admin**
- Password: **1234**

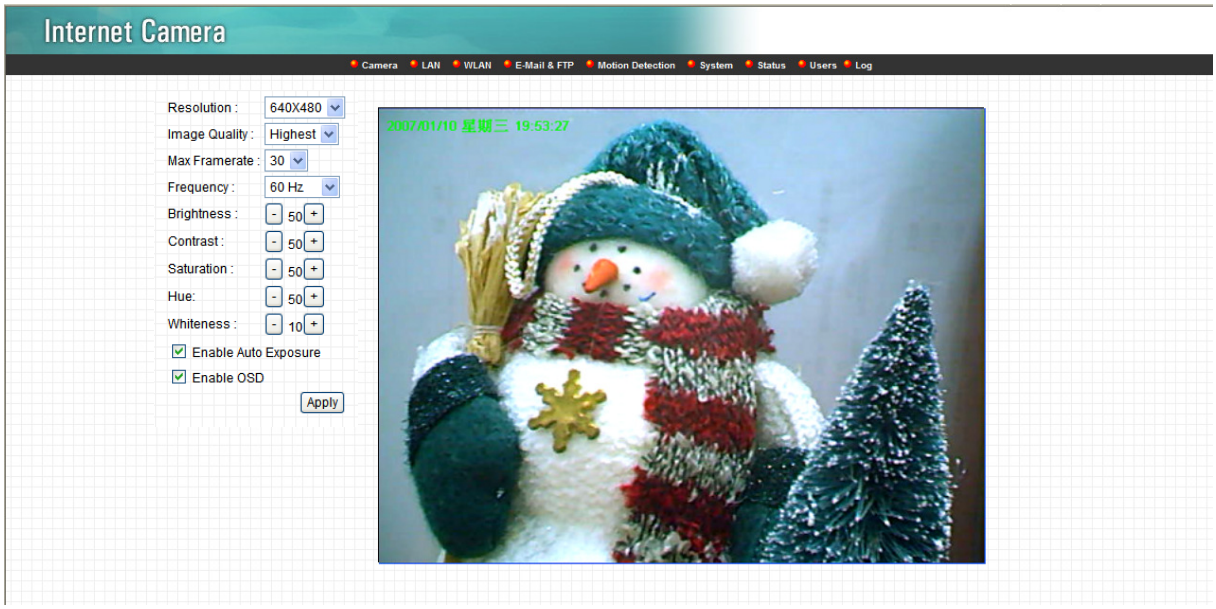
If this is the first time connecting ZVC7611/ZVC7611W, please download ActiveX Setup.exe to install ActiveX Plug-In.



After installing ActiveX Plug-In, you will see video image on the web screen directly.

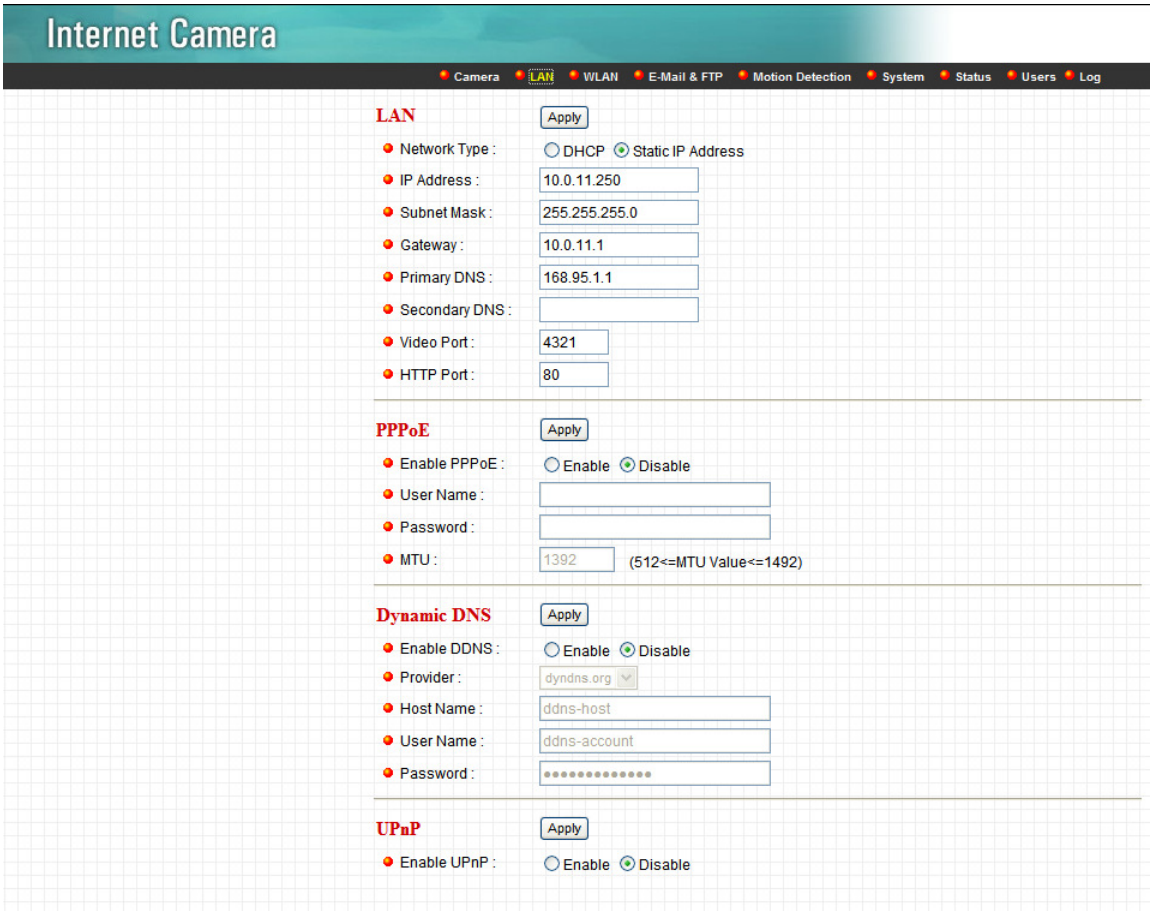


8.1 Camera



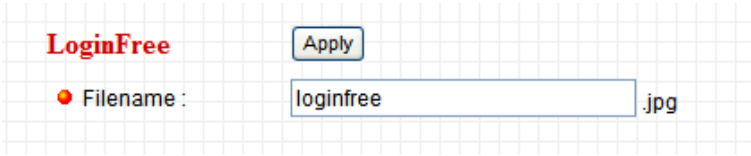
- **Resolution:** Default resolution is 640 x 480 VGA format; 320 x 240 is CIF format.
- **Image Quality:** Adjust to control the video quality.
- **Max Frame Rate:** ZVC7611/ZVC7611W supports at most 30 frames per second. Set the frame rate higher can get video more smooth. But will use more bandwidth.
- **Frequency:** Adjust to fitting light frequency.
- **Brightness:** Value can be from 1 to 100.
- **Contrast:** Value can be from 1 to 100.
- **Saturation:** Value can be from 1 to 100.
- **Hue:** Value can be from 1 to 100.
- **Whiteness:** Value can be from 10 to 30.
- **Enable Auto Exposure:** Enable Auto Exposure by check this box.
- **Enable OSD:** Enable or disable ***Time Stamp*** function on the screen. When you disable OSD function, Time Stamp will be hidden.
- **Apply:** Click to validate the setting values.

8.2 LAN



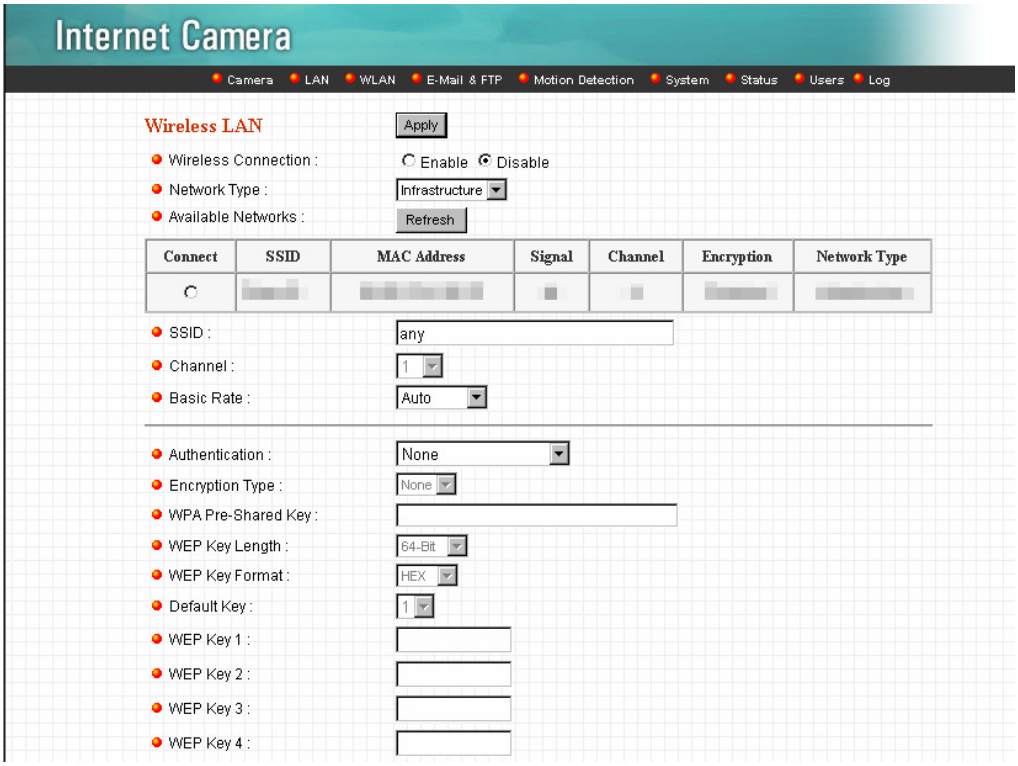
- **LAN**
  - **Network Type:** Obtain IP via DHCP protocol or specified static IP Address.
  - **IP Address:** Enter an unused IP Address within the IP address range used on your LAN.
  - **Subnet Mask:** Subnet Mask field must match the subnet setting on your LAN.
  - **Gateway:** The Gateway is used to forward frames to destinations in a different subnet on the Internet.
  - **DNS Server:** DNS Server (Domain Name Server) translates names to IP addresses.
  - **Video Port:** Default value is ***4321***. AV Control Port is used to transmit or receive the AV streaming in the network.
  - **Web Port:** Default value is ***80***. Since the web server may use port 80, you can use a different port for ZVC7611/ZVC7611W. If you change the web port from 80 to 8080, you must type **http://192.168.2.3:8080** to connect ZVC7611/ZVC7611W through the web browser.
  - **Apply:** Click ***Apply*** when finishing LAN setting.

- **PPPoE**
  - **Enable PPPoE: *Enable*** or ***Disable*** PPPoE function.
  - **User Name:** Enter the User Name for the PPPoE Connection.
  - **Password:** Enter the Password for the PPPoE Connection.
  - **MTU:** A maximum transmission unit (MTU) is the largest size packet or frame, specified in octets (eight-bit bytes), that can be sent in a packet or frame based network such as the Internet.
  - **Apply:** Click ***Apply*** when finishing PPPoE setting.
- **Dynamic DNS**
  - **Enable DDNS: *Enable*** or ***Disable*** DDNS function.
  - **Provider:** ZVC7611/ZVC7611W supports the DDNS service from DynDNS Company.
  - **Domain Name:** Enter the domain name that you register for ZVC7611/ZVC7611W from DynDNS web site *registername.dyndns.com*.
  - **User Name:** Enter the login name for the DDNS service.
  - **Password:** Enter the password for the DDNS service.
  - **Apply:** Click ***Apply*** when finishing DDNS setting.
- **UPnP**
  - **Enable UPNP: *Enable*** or ***Disable*** UPnP function.
  - **Apply:** Click ***Apply*** when finishing UPnP setting.



- **LoginFree**
  - **Filename:** The Default value is ***loginfree***. ZVC7611/ZVC7611W will send a snapshot image to Internet Explorer. If user changed file name (Ex: ***1234***), the URL must changed to http://192.168.2.3/1234.jpg.
  - **Apply:** Click ***Apply*** when finishing LoginFree setting.

8.3 WLAN (For ZVC7611W)

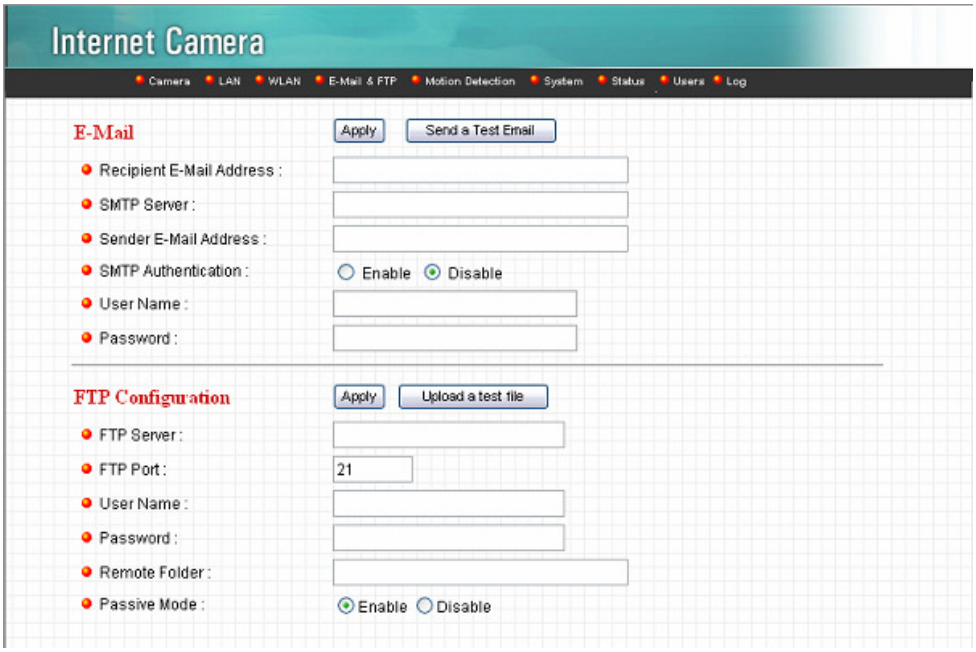


- **Wireless connection:** Default value is Disable.
- **Network Type:** Select **Infrastructure** or **Ad-Hoc** from dropdown menu.
- **Available Networks:** Select the networks listed below.
- **SSID:** To connect your ZVC7611W to a specific access point, you have to set the corresponding access point SSID.
- **Channel:** Only available for Ad-Hoc mode. The channel setting should be the same with the network you are connecting to.
- **Basic Rate:** ZVC7611W will force to the data rate that you selected to transmit data.
- **Authentication and Encryption Type:**
  - **None:** Means you don't want any encryption for wireless network.
  - **Open System:** Means you can use WEP for encryption or no encryption.
  - **Shared Key:** you must use WEP for encryption.
  - **WPA-PSK:** Encryption your wireless with WPA-TKIP or WPA-AES.
- **WPA Pre-Shared Key:** From 8 to 64 characters and can be letters or numbers.
- **WEP Key Length:** You may select ***64-bit*** or ***128-bit*** to encrypt transmitted data.
- **WEP Key Format:**
  - **Hex:** Use only **A~F, a~f** & **0~9.**
  - **ASCII:** Use alphanumeric characters.
- **Default Key:** Select one of the keys (1~4) as the encryption key.

- **Key1 ~ Key4:** Fill the text box by following rules.
  - **Hex 64-bit:** 10 characters (use only **A~F, a~f** & **0~9**)
  - **Hex 128-bit:** 26 characters (use only **A~F, a~f** & **0~9**)
  - **ASCII 64-bit:** 5 alphanumeric characters
  - **ASCII 128-bit:** 13 alphanumeric characters
- **Apply:** Click ***Apply*** when finishing WLAN setting.

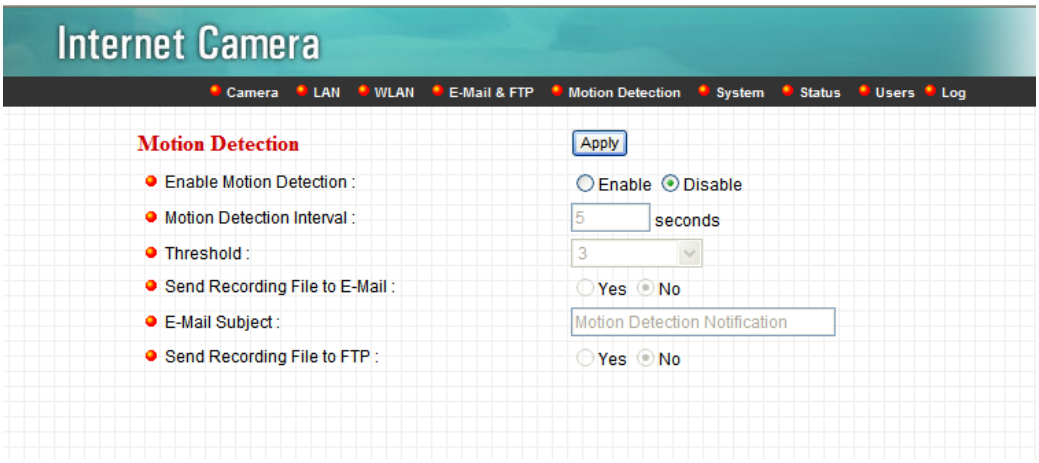
8.4 E-Mail and FTP

E-Mail & FTP page lets you setup E-Mail client and FTP client that camera can sent live video to your e-mail account or FTP server when Motion has been detected.



- **E-Mail**
  - **Recipient E-Mail Address:** Enter the E-Mail Account for receiving the pictures recorded by Motion Detection function.
  - **SMTP Server:** Enter the SMTP Server for the E-Mail sending.
  - **Sender E-Mail Address:** Enter the E-Mail address of the e-mail sender.
  - **SMTP Authentication:** ***Enable*** or ***Disable*** the SMTP Authentication function.
  - **Username:** When Authentication is enabled, input the SMTP Username.
  - **Password:** When Authentication is enabled, input the password.
  - **Send a Test Email:** Click button to send a test e-mail to your mailbox to test if your setting is correct.
- **FTP Configuration**
  - **FTP Server:** Enter the FTP address for receiving the pictures recorded by Motion Detection function.
  - **FTP Port:** Enter the port of FTP server.
  - **User Name:** Input the user account of ftp server.
  - **Password:** Input the Password of ftp server.
  - **Remote Folder:** Input the folder name that you want to store the video.
  - **Passive Mode:** If ZVC7611/ZVC7611W is under NAT, you usually need to enable this mode.

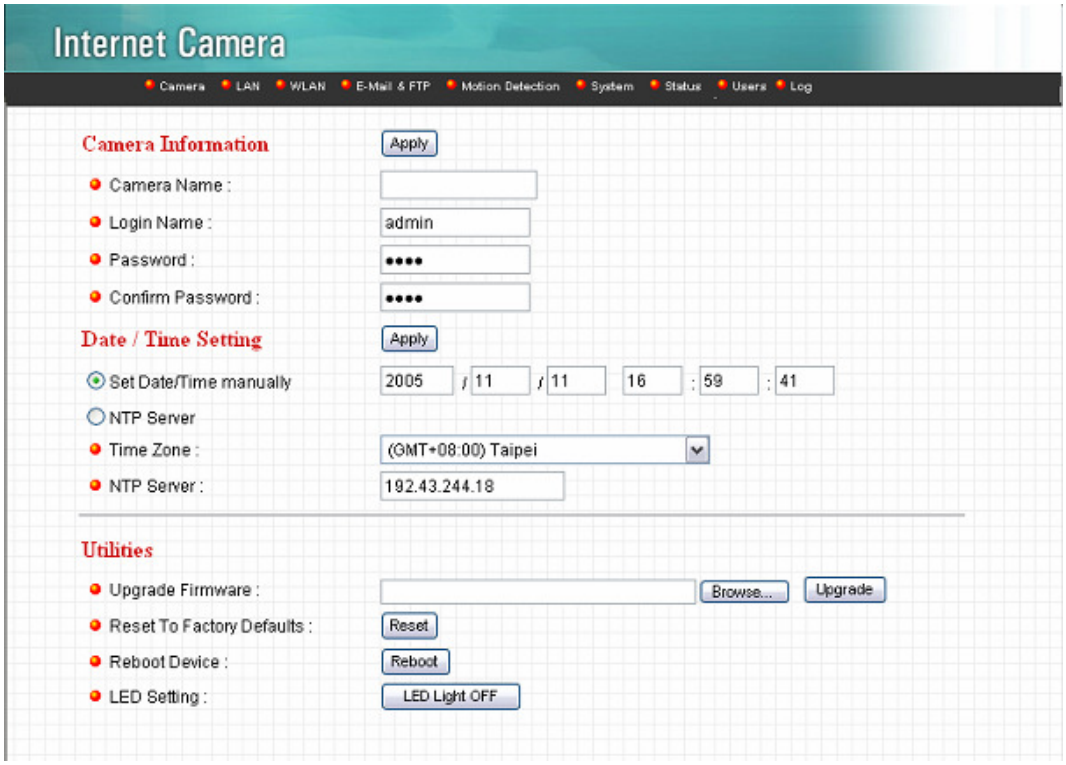
8.5 Motion Detection



- **Motion Detection Enable:** ***Enable*** or ***Disable*** Motion Detection Function.
- **Motion Detection Interval:** Setup the interval between two events.
- **Threshold:** Setup the sensitivity of motion detection.
- **Send Recording File to E-Mail:** Select ***Yes*** to send the recorded video file to your E-Mail account specified at ***E-Mail & FTP*** menu.
- **E-Mail Subject:** Input the subject of motion detection notice e-mail.
- **Send Recording File to FTP:** Select ***Yes*** to send the recorded video file to your FTP server specified at ***E-Mail & FTP*** menu.

8.6 System

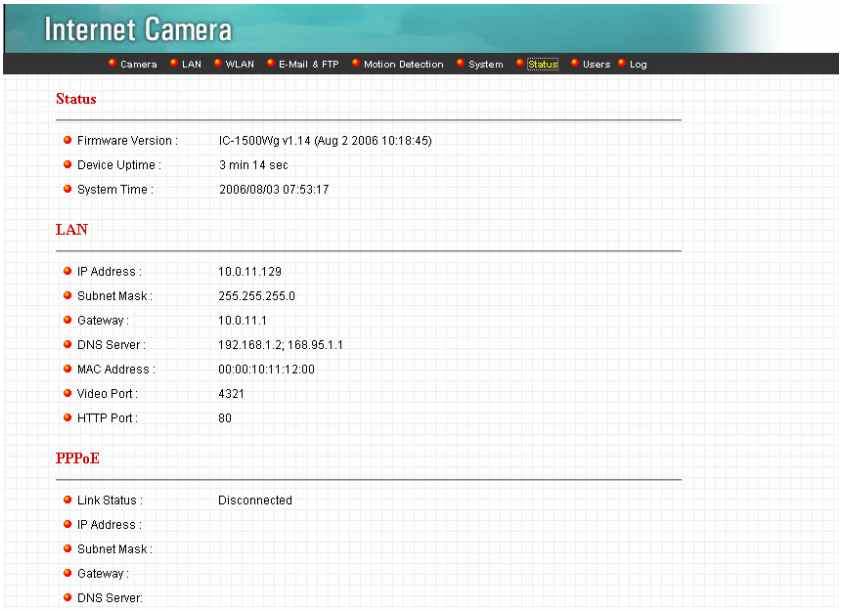
System page allows users to setup parameters, firmware upgrade and reset tools.



- **Camera Information**
  - **Camera Name:** Default value is ***IP Camera*** / ***Wireless IP Camera*****.**
  - **Login Name:** Default value is ***admin***.
  - **Password:** Enter up to 4 digits password.
  - **Confirm Password:** Enter the password again to confirm the setting.
- **Date / Time Setting**
  - **Set Date/Time manually:** Display current Date and Time.
  - **NTP Server:** Synchronize Date and Time with NTP server.
  - **Time Zone:** Select the time zone by drop-down menu.
  - **NTP Server:** Enter the IP Address of NTP Server.
- **Utilities**
  - **Upgrade Firmware:** Click ***Browse*** to find the correct firmware and then click ***Upgrade***.
  - **Reset to Factory Defaults:** Click **Reset** to reset all camera setting to default.
  - **Reboot Device:** To reboot the ZVC7611/ZVC7611W, click ***Reboot***.
  - **LED Setting:** If you wan to secure ZVC7611/ZVC7611W from noticing, you can turn off the status LED light by clicking ***LED Light OFF***. To turn on the status LED light, click ***LED Light ON***.

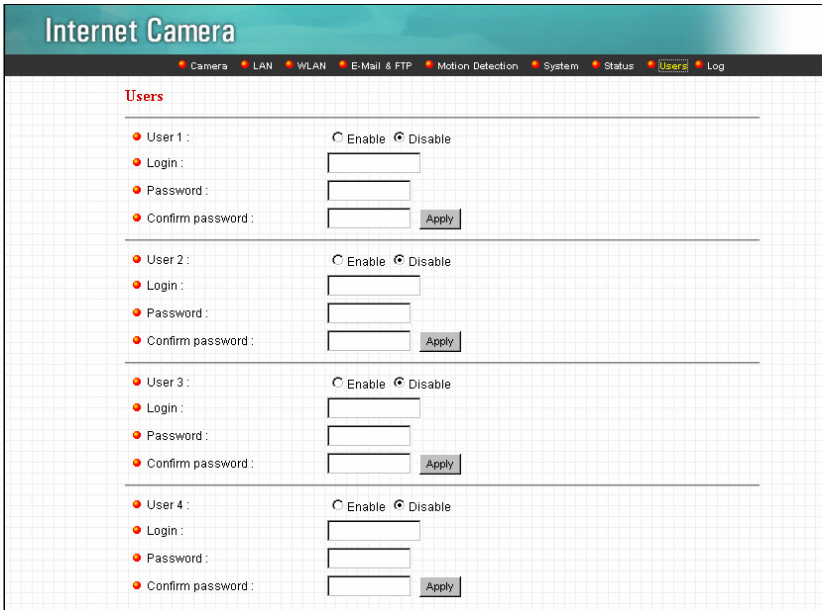
8.7 Status

Status page shows the current information of ZVC7611/ZVC7611W.


Internet Camera
Camera LAN WLAN E-Mail & FTP Motion Detection System Status Users Log
Status
Firmware Version : IC-1500Wg v1.14 (Aug 2 2006 10:18:45)
Device Uptime : 3 min 14 sec
System Time : 2006/08/03 07:53:17
LAN
IP Address : 10.0.11.129
Subnet Mask : 255.255.255.0
Gateway : 10.0.11.1
DNS Server : 192.168.1.2; 168.95.1.1
MAC Address : 00:00:10:11:12:00
Video Port : 4321
HTTP Port : 80
PPPoE
Link Status : Disconnected
IP Address :
Subnet Mask :
Gateway :
DNS Server:

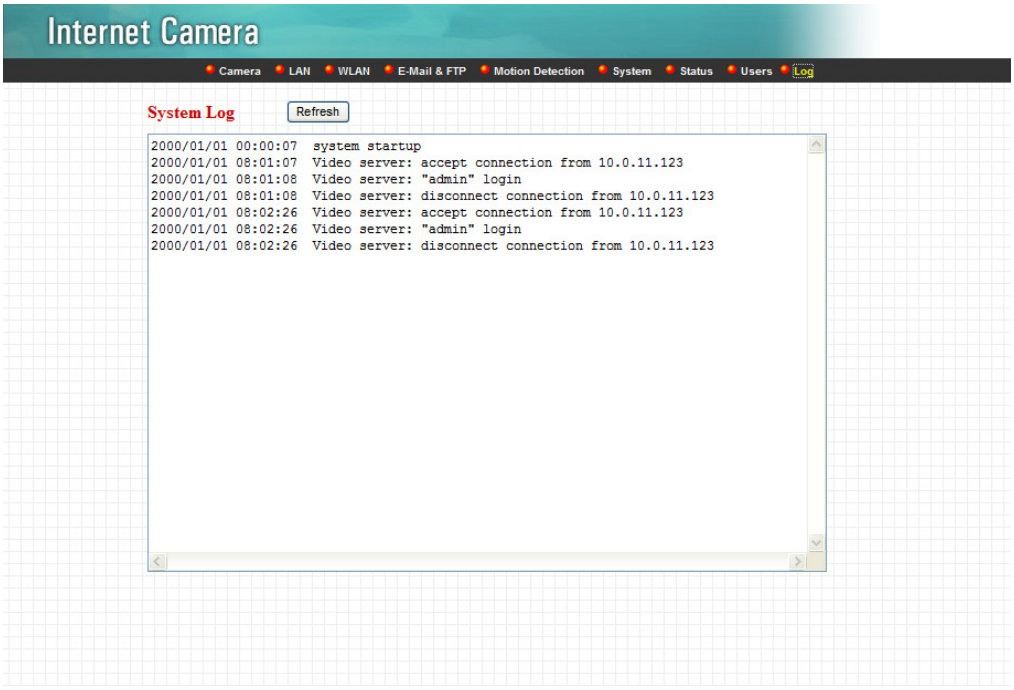
8.8 Users

Users page allows users to add four user accounts which are able to view video from Camera Viewer and Web Management. These users, unlike Administrator, are not allowed to configure the camera.



8.9 Log

Log page allows users to monitor the device event and time.



- **Log screen:** Display the event and event time of ZVC7611/ZVC7611W.
- **Refresh:** Click ***Refresh*** to refresh the log screen.

9. Specifications

Image Sensor	
Image Sensor	300K pixels 1/4” Color CMOS Sensor
Resolution	640x480
Lens	
Aperture (F/No.)	1.8
Focus Length	4.8mm
Image Processing	
Compression	MJPEG
Frame rate	20fps @VGA , 30fps @QVGA
Image Resolution	176 x 144, 320 x 240, 640 x 480
System	
Browser	Internet Explore 6.0 and above
Supported OS	Windows 2000/XP/Server 2003/Vista/7
Power	12V
Environment	Temperature: 0°C ~ 45°C Humidity: 10% ~ 90% non-condensing
Approvals	CE/FCC class B
Communication	
Ethernet	One RJ45 port; IEEE 802.3u compliant 10/100 Mbps Fast Ethernet with Auto-MDIX
Wireless	IEEE802.11b/802.11g
Supported Protocols	TCP/IP, UDP, ICMP, DHCP, NTP, DNS, DDNS, SMTP, FTP, HTTP, PPPoE, UPnP
LED and Button	
Power	Blue Color
LAN	Green Color
WLAN	Orange Color
Reset button	Push and hold over 5 sec will be Factory reset
Software	
Application Software	View channel:16 CHs
	Manual/Schedule Record
	Video Playback/Stop/Forward/Pause
	Motion detect

10. Frequently Asked Questions

Q1: What algorithm is used to compress the digital image?
A: ZVC7611/ZVC7611W utilizes MJPEG video compression technology to provide high quality images. MJPEG is a standard for video compression and can be applied to various application software.

Q2: Can I capture or record still images from ZVC7611/ZVC7611W?
A: Yes, you are able to capture or record still images with the snapshot function from the Camera Viewer application supplied with ZVC7611/ZVC7611W CD-ROM.

Q3: What network cabling is required for ZVC7611/ZVC7611W?
A: ZVC7611/ZVC7611W uses Category 5 UTP Twisted-pair cable allowing 10 Base-T and 100 Base-T networking.

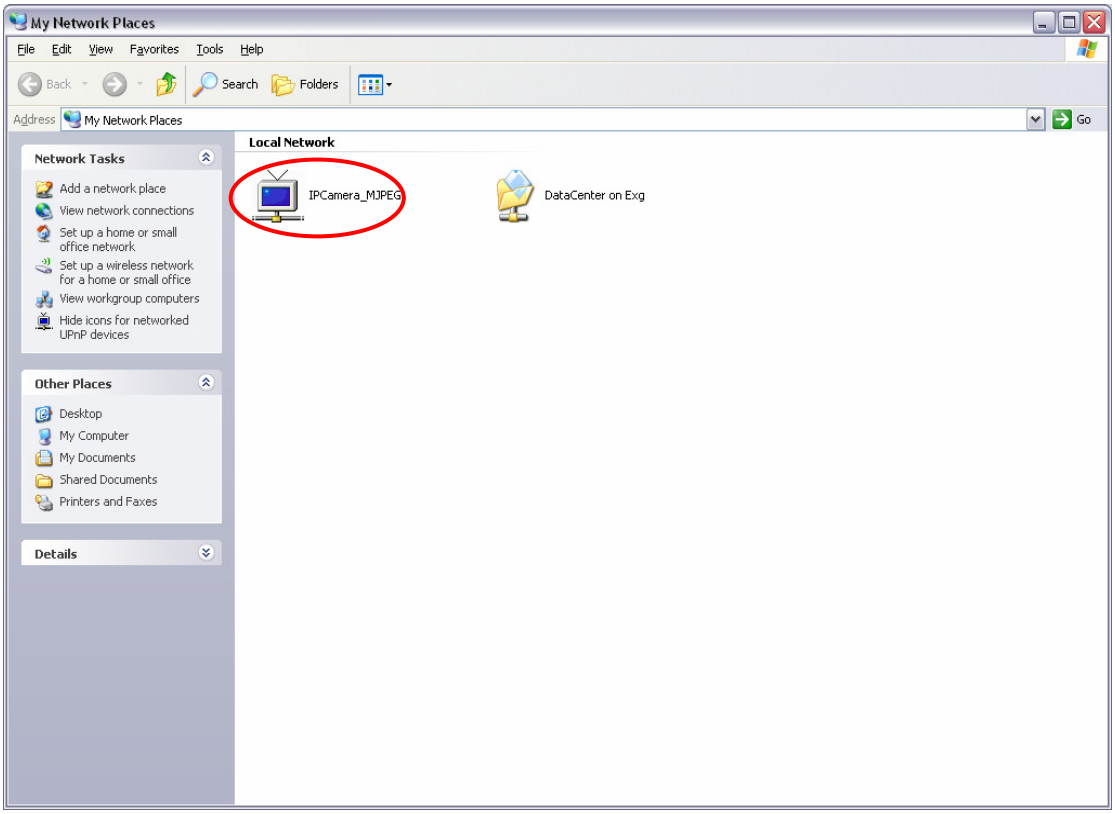
Q4: Can ZVC7611/ZVC7611W be setup as a PC-cam on the computer?
A: No, ZVC7611/ZVC7611W is used only on Ethernet and Fast Ethernet network.

Q5: Can ZVC7611/ZVC7611W be connected on the network if it consists of only private IP Addresses?
A: Yes, ZVC7611/ZVC7611W can be connected to a LAN with private IP Addresses.

Q6: The focus on ZVC7611/ZVC7611W is bad, how can I correct it?
A: Adjust ZVC7611/ZVC7611W focus manually.

11. Appendix A Viewing via UPnP in Windows XP

When the UPnP function is enabled, ZVC7611/ZVC7611W can be detected by UPnP compliant system such as Windows XP. ZVC7611/ZVC7611W will be displayed in the Neighborhood of Windows XP, so you can directly double click the camera icon or right click the camera icon and select ***Invoke*** to view the video through web browser.



Enable UPnP in Windows XP SP2

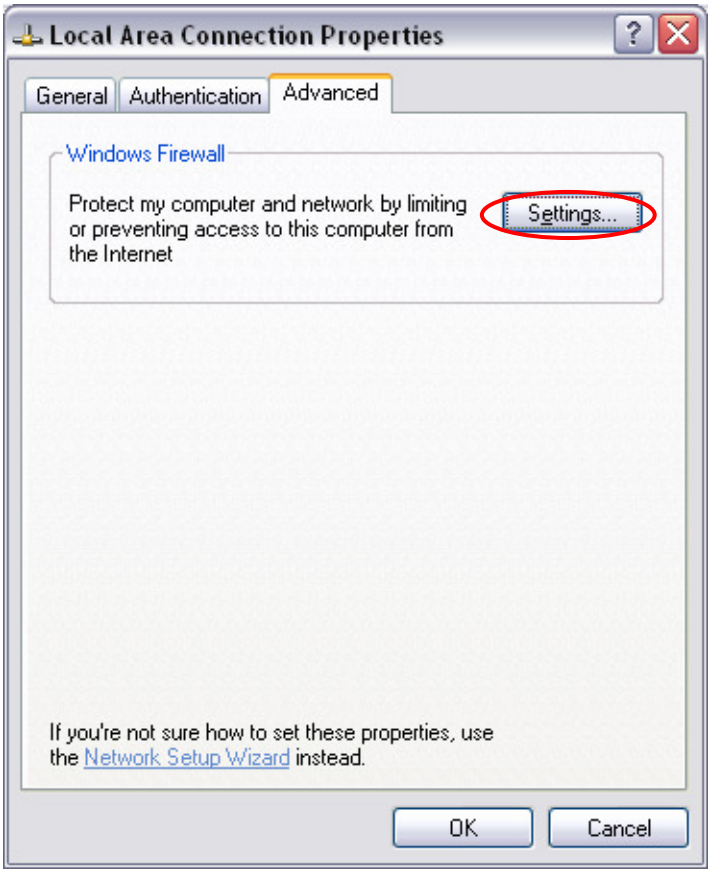
If you can't find ZVC7611/ZVC7611W in the Neighborhood of Windows XP SP2 or you have seen the following message when you double click the camera icon. You have to check if UPnP function is blocked by the firewall. Please follow the steps below to enable it.

Device Offline
The device you are trying to use is not currently available on your network. Check to see if the device is on the network and try again.
OK

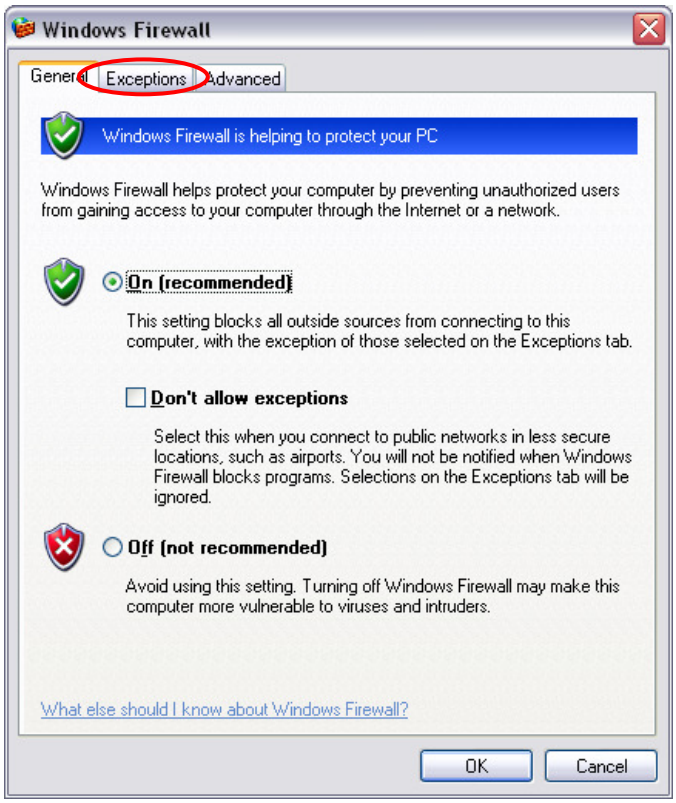
1. Go to ***Start → Settings → Network Connections***.

2. Right click ***Local Area Connection*** and select ***Properties***.

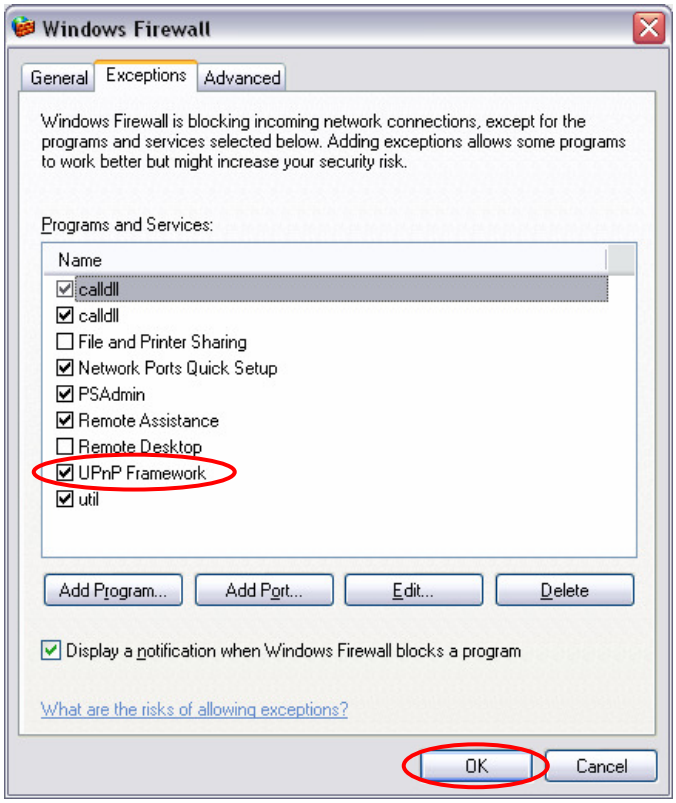
3. In ***Local Area Connection Properties***, select ***Advanced*** tab and click ***Settings***.


Local Area Connection Properties
General
Authentication
Advanced
Windows Firewall
Protect my computer and network by limiting or preventing access to this computer from the Internet
Settings...
If you're not sure how to set these properties, use the Network Setup Wizard instead.
OK
Cancel

4. ***Windows Firewall*** will be popped up, select ***Exceptions*** tab.


Windows Firewall
General
Exceptions
Advanced
Windows Firewall is helping to protect your PC
Windows Firewall helps protect your computer by preventing unauthorized users from gaining access to your computer through the Internet or a network.
On (recommended)
This setting blocks all outside sources from connecting to this computer, with the exception of those selected on the Exceptions tab.
Don't allow exceptions
Select this when you connect to public networks in less secure locations, such as airports. You will not be notified when Windows Firewall blocks programs. Selections on the Exceptions tab will be ignored.
Off (not recommended)
Avoid using this setting. Turning off Windows Firewall may make this computer more vulnerable to viruses and intruders.
What else should I know about Windows Firewall?
OK
Cancel

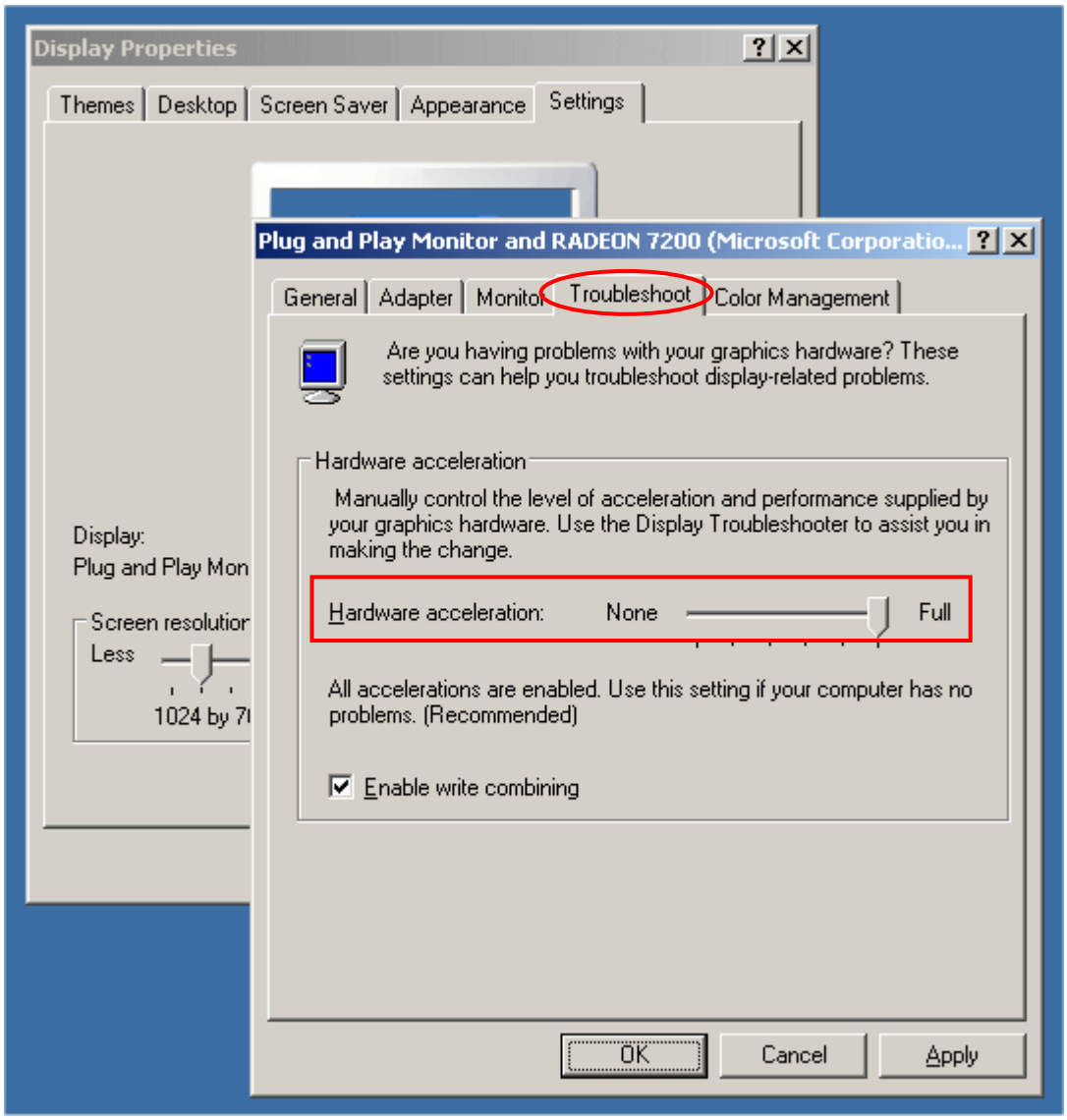
5. Enable ***UPnP Framework*** from ***Programs and Services list*** and click ***OK***.



12. Appendix B Configure Windows 2003 Server

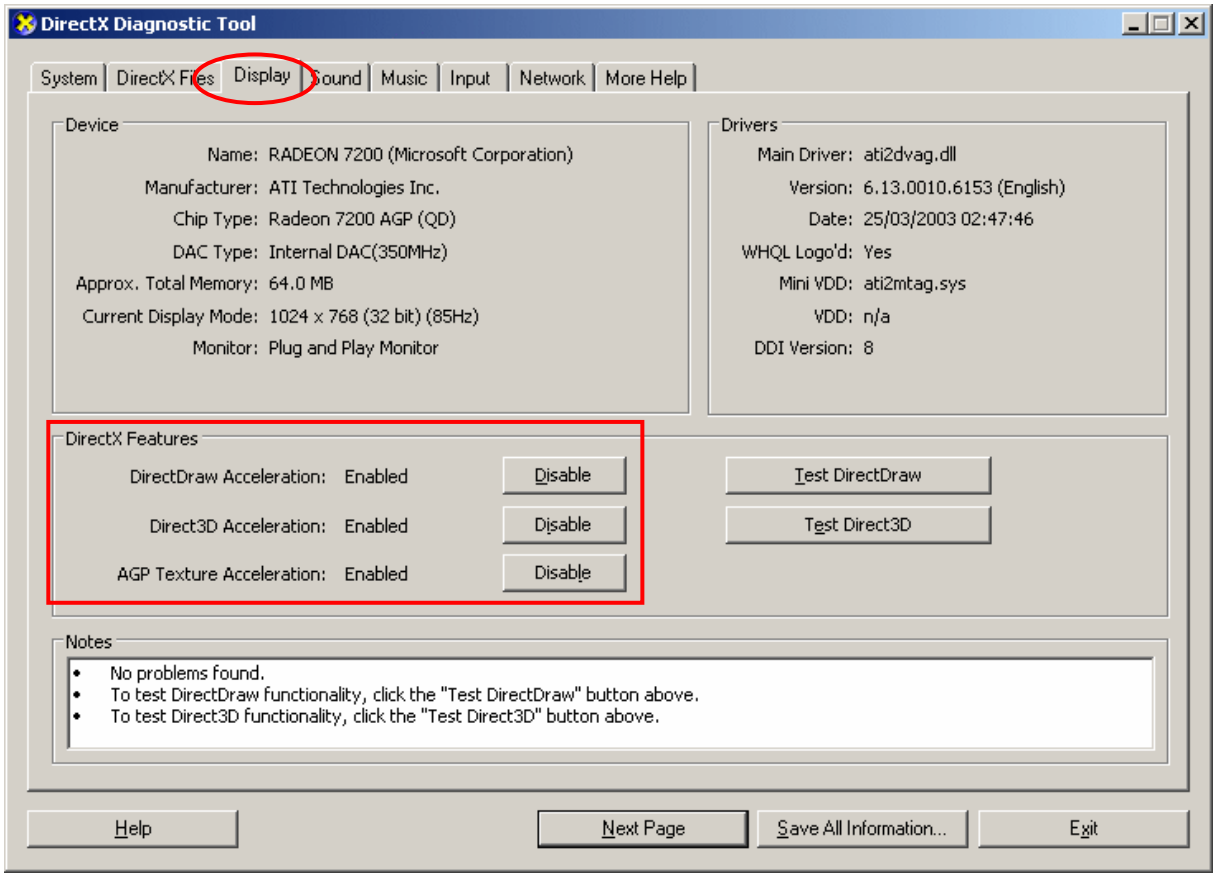
Graphics Hardware Acceleration and DirectX are **Disabled** by default on a Server configuration to ensure maximum stability and uptime. But for any reason you need to enable them to use DirectX enabled applications, following will guide you through on how you can do it.

Enabling Graphics Hardware Acceleration



1. Simply right click anywhere on your desktop and select ***Properties → Settings tab → Advanced → Troubleshoot tab***.
2. Move the ***Hardware acceleration*** slider across to ***Full***.
3. Click ***OK.***
4. You may experience a monitor black out for a few seconds, this is normal.

Enabling DirectX



5. Go to ***Start → Run → type dxdiag followed by enter***. You will get a dialog box asking if you want to allow dxdiag to access the internet to check for valid WHQL certificates, click ***Yes***.

6. Select ***Display*** tab, and click on all three boxes to ***Enable DirectDraw, Direct3D and AGP Texture Acceleration.***